

# PATIENT SAFETY INDICATORS™ (PSI) v2019 ICD-10-CM/PCS Parameter Estimates

**Prepared for:**

Agency for Healthcare Research and Quality  
U.S. Department of Health and Human Services  
540 Gaither Road  
Rockville, MD 20850  
<http://www.qualityindicators.ahrq.gov>

**Contract No.** HHS-A290201800003G

**Prepared by:**

Mathematica  
P.O. Box 2393  
Princeton, NJ 08543-2393

**July 2019**

## Contents

Executive Summary .....	ii
Table 1. Risk Adjustment Coefficients for PSI 02 Death Rate in Low-Mortality Diagnosis Related Groups (DRGs) .....	5
Table 2. Risk Adjustment Coefficients for PSI 03 Pressure Ulcer Rate .....	7
Table 3A. Risk Adjustment Coefficients for PSI 04A Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum A.....	13
Table 3B. Risk Adjustment Coefficients for PSI 04B Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum B.....	17
Table 3C. Risk Adjustment Coefficients for PSI 04C Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum C.....	21
Table 3D. Risk Adjustment Coefficients for PSI 04D Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum D.....	24
Table 3E. Risk Adjustment Coefficients for PSI 04E Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum E.....	27
Table 4. Risk Adjustment Coefficients for PSI 06 Iatrogenic Pneumothorax Rate.....	30
Table 5. Risk Adjustment Coefficients for PSI 07 Central Venous Catheter-Related Blood Stream Infection Rate .....	37
Table 6. Risk Adjustment Coefficients for PSI 08 In-Hospital Fall with Hip Fracture Rate.....	43
Table 7. Risk Adjustment Coefficients for PSI 09 Perioperative Hemorrhage or Hematoma Rate .....	48
Table 8. Risk Adjustment Coefficients for PSI 10 Postoperative Physiologic and Metabolic Derangement Rate.....	53
Table 9. Risk Adjustment Coefficients for PSI 11 - Postoperative Respiratory Failure Rate ...	56
Table 10. Risk Adjustment Coefficients for PSI 12 Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate .....	60
Table 11. Risk Adjustment Coefficients for PSI 13 Postoperative Sepsis Rate.....	65
Table 12. Risk Adjustment Coefficients for PSI 14 Postoperative Wound Dehiscence Rate – Stratum A.....	69
Table 13. Risk Adjustment Coefficients for PSI 14 Postoperative Wound Dehiscence Rate – Stratum B .....	72
Table 14. Risk Adjustment Coefficients for PSI 15 Unrecognized Abdominopelvic Accidental Puncture/Laceration Rate .....	74
Composite Weights for PSI 90 .....	79
Table A.1. Population Age Categories .....	80
Table A.2. Modified Diagnosis-Related Group (MDRG) Categories .....	81
Table A.3. Major Diagnostic Categories (MDC).....	106

Table A.4. Comorbidity Categories (COMORB), HCUP Comorbidity Software, Version 3.7*	107
.....	.....
Table A.5. Categorical Variables Definitions: Transfer, Procedure Days, Point of Origin.....	108

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

---

## Executive Summary

This document provides statistical parameters associated with Version 2019 of Agency for Healthcare Research and Quality (AHRQ) Quality Indicators™ (QI) Patient Safety Indicators (PSI). The parameter estimates derived for the AHRQ QI are based on analysis of the 2016 Agency for Healthcare Research and Quality's Healthcare Cost and Utilization Project (HCUP) State Inpatient Databases (SID).<sup>1</sup>

HCUP is a family of healthcare databases and related software tools and products developed through a Federal-State-Industry partnership.<sup>2</sup> HCUP includes the largest collection of longitudinal hospital care data in the United States, with all-payer, encounter-level information beginning in 1988. The SID contain all-payer, encounter-level information on inpatient discharges, including clinical and resource information typically found on a billing record, such as patient demographics, up to 30 *International Classification of Diseases, Tenth Revision, Clinical Modification/Procedural Classification System (ICD-10-CM/PCS)* diagnoses and procedures, length of stay (LOS), expected payer, admission and discharge dates and discharge disposition. In 2016, the HCUP databases represent more than 97 percent of all annual discharges in the U.S.<sup>3</sup>

---

<sup>1</sup> Healthcare Cost and Utilization Project (HCUP) 2016 State Inpatient Databases (SID). Agency for Healthcare Research and Quality, Rockville, MD

<sup>2</sup> The AHRQ QI program would like to acknowledge the HCUP Partner organizations that participated in the HCUP SID: Alaska State Hospital and Nursing Home Association, Arizona Department of Health Services, Arkansas Department of Health, California Office of Statewide Health Planning and Development, Colorado Hospital Association, Connecticut Hospital Association, Delaware Division of Public Health, District of Columbia Hospital Association, Florida Agency for Health Care Administration, Georgia Hospital Association, Hawaii Health Information Corporation, Illinois Department of Public Health, Indiana Hospital Association, Iowa Hospital Association, Kansas Hospital Association, Kentucky Cabinet for Health and Family Services, Louisiana Department of Health and Hospitals, Maine Health Data Organization, Maryland Health Services Cost Review Commission, Massachusetts Center for Health Information and Analysis, Michigan Health & Hospital Association, Minnesota Hospital Association (provides data for Minnesota and North Dakota), Mississippi Department of Health, Missouri Hospital Industry Data Institute, Montana MHA - An Association of Montana Health Care Providers, Nebraska Hospital Association, Nevada Department of Health and Human Services, New Hampshire Department of Health & Human Services, New Jersey Department of Health, New Mexico Department of Health, New York State Department of Health, North Carolina Department of Health and Human Services, North Dakota (data provided by the Minnesota Hospital Association), Ohio Hospital Association, Oklahoma State Department of Health, Oregon Association of Hospitals and Health Systems, Oregon Office of Health Analytics, Pennsylvania Health Care Cost Containment Council, Rhode Island Department of Health, South Carolina Revenue and Fiscal Affairs Office, South Dakota Association of Healthcare Organizations, Tennessee Hospital Association, Texas Department of State Health Services, Utah Department of Health, Vermont Association of Hospitals and Health Systems, Virginia Health Information, Washington State Department of Health, West Virginia Health Care Authority, Wisconsin Department of Health Services, Wyoming Hospital Association

<sup>3</sup> The states included in the analysis are Alaska, Arkansas, Arizona, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Iowa, Illinois, Indiana, Kansas, Kentucky, Louisiana, Massachusetts, Maryland, Maine, Michigan, Minnesota, Mississippi, Missouri, Montana, North Carolina, Nebraska, New Jersey, New Mexico, Nevada, New York, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Vermont, Washington, Wisconsin, West Virginia, and Wyoming.

The analytic dataset used to generate the risk adjustment regression models in this document consists of the same hospital discharge records that comprise the reference population for Version 2019 of the AHRQ QI software. This reference population file was limited to community hospitals and excludes rehabilitation and long-term acute care (LTAC) hospitals. Information on the type of hospital was obtained by the American Hospital Association (AHA) Annual Survey of Hospitals. AHA defines community hospitals as “all non-Federal, short-term, general, and other specialty hospitals, excluding hospital units of institutions.” Included among community hospitals are specialty hospitals such as obstetrics-gynecology, ear-nose-throat, orthopedic, and pediatric institutions. Also included are public hospitals and academic medical centers.

In 2016, 45 of the SID include indicators of the diagnoses being present on admission (POA) and included the PRDAY data element. Discharges from these 45 participating States are used to develop hospital-level indicators. Edit checks on POA were developed during an HCUP evaluation of POA coding in the 2011 SID at hospitals that were required to report POA to CMS (<http://www.hcup-us.ahrq.gov/reports/methods/2015-06.pdf>). The edits identify general patterns of suspect reporting of POA. The edits do not evaluate whether a valid POA value (e.g., Y or N) is appropriate for the specific diagnosis. There are three hospital-level edit checks:

1. Indication that a hospital has POA reported as Y on all diagnoses on all discharges
2. Indication that a hospital has POA reported as missing on all non-Medicare discharges
3. Indication that a hospital reported POA as missing on all nonexempt diagnoses for 15 percent or more of discharges. The cut-point of 15 percent was determined by 2 times the standard deviation plus the mean of the percentage for hospitals that are required to report POA to CMS.

This document is devoted to listing covariates and coefficients for risk adjustment regression models. The regression coefficients are used to calculate risk-adjusted rates that account for differences in patient populations across hospitals. Certain AHRQ QIs (such as PSI 18 Obstetric Trauma Rate – Vaginal Delivery With Instrument and PSI 19 Obstetric Trauma Rate – Vaginal Delivery Without Instrument) are not risk-adjusted because materially important risk factors (e.g., whether the mother is nulliparous or multiparous or the size of the infant) are not available in the Healthcare Cost and Utilization Project (HCUP) State Inpatient Database (SID).

The majority of the document is devoted to listing covariates and coefficients for risk adjustment regression models. The regression coefficients are used by the prediction module to calculate risk-adjusted rates that account for differences in patient populations across hospitals. Covariates that are considered as potential risk adjusters include sex and age, Major Diagnostic Categories (MDC), Modified Diagnosis-Related Group (MDRG) categories, comorbidities that were apparently present on admission, patient point-of-origin and whether they were transferred from another facility. Descriptions of some variable categories are provided in the Appendix tables at the end of the document. Every covariate in every model is a binary indicator variable, coded using 0 or 1. The AHRQ QI software user does not need to manipulate or adjust these coefficients; rather this document is intended to make it transparent to the user how the risk adjusted QI rates are calculated.

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

---

In addition to the presentation of the covariates for the risk models, the document also lists weights used to calculate the composite indicator, PSI 90 Patient Safety and Adverse Events Composite.

Additional information on the risk adjustment process and composite indicators may be found in *Quality Indicator Empirical Methods*, available on the AHRQ QI™ website.  
(<http://www.qualityindicators.ahrq.gov/modules/Default.aspx>)

**Table 1. Risk Adjustment Coefficients for PSI 02 Death Rate in Low-Mortality Diagnosis Related Groups (DRGs)**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-7.75015111	0.126253085	-61.3858354	<.0001
Age	Male, Age < 30	1	-1.36201925	0.424195238	-3.21083107	0.0013
Age	Male, Age < 50	1	-0.99568395	0.223504367	-4.45487471	<.0001
Age	Male, Age < 55	1	0.230631802	0.244204118	0.944422247	0.345
Age	Male, Age < 60	1	-0.53951955	0.242581631	-2.2240742	0.0261
Age	Male, Age < 65	1	-0.15296074	0.176501893	-0.86662378	0.3861
Age	Male, Age >= 65	1	-0.1335139	0.184644535	-0.72308611	0.4696
Age	Male, Age >= 70	1	0.239162683	0.23114525	1.034685692	0.3008
Age	Male, Age >= 75	1	0.428556311	0.204150871	2.099213725	0.0358
Age	Male, Age >= 80	1	0.497688584	0.1905237	2.612213518	0.009
Age	Male, Age >= 85	1	0.163625694	0.179012754	0.914044894	0.3607
Age	Male, Age >= 90	1	0.420645156	0.194759873	2.15981429	0.0308
Age	Female, Age < 30	1	-0.35655703	0.135842687	-2.62477895	0.0087
Age	Female, Age < 35	1	-0.08097937	0.159933019	-0.50633304	0.6126
Age	Female, Age < 40	1	-0.24580842	0.201715114	-1.21859198	0.223
Age	Female, Age < 45	1	0.183784401	0.197915914	0.928598402	0.3531
Age	Female, Age < 65	1	-1.18577375	0.145377096	-8.15653765	<.0001
Age	Female, Age >= 80	1	0.981679141	0.109882255	8.933918792	<.0001
DM	Diabetes w/o chronic complications	1	0.101204204	0.082269509	1.230154459	0.2186
CHF	Congestive heart failure	1	0.68261304	0.106131975	6.431737831	<.0001
COAG	Coagulopathy	1	1.173939244	0.104469135	11.23718736	<.0001
DRUG	Drug abuse	1	0.014416324	0.142685727	0.101035504	0.9195
PARA	Paralysis	1	0.666935165	0.150411952	4.434056976	<.0001
HTN_C	Hypertension	1	-0.13824084	0.089670479	-1.54165388	0.1232
LIVER	Liver disease	1	0.533321794	0.165650799	3.219554618	0.0013

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-7.75015111	0.126253085	-61.3858354	<.0001
LYTES	Fluid and electrolyte disorders	1	0.921531419	0.075010302	12.285398	<.0001
NEURO	Neurological disease	1	0.511131831	0.08633076	5.920622404	<.0001
OBESE	Obesity	1	0.213726397	0.08408761	2.541710912	0.011
PSYCH	Psychoses	1	0.188007353	0.170757964	1.101016601	0.2709
ALCOHOL	Alcohol abuse	1	-0.37581302	0.156715848	-2.39805372	0.0165
BLDLOSS	Chronic blood loss anemia	1	0.716234801	0.138468829	5.172534539	<.0001
DEPRESS	Depression	1	-0.24634512	0.102407162	-2.40554582	0.0161
HYPOTHY	Hypothyroidism	1	-0.2043333	0.088221393	-2.31614231	0.0206
CHRNLUNG	Chronic pulmonary disease	1	0.08666525	0.078657016	1.10181207	0.2705
PERIVASC	Peripheral vascular disease	1	0.359899864	0.11957461	3.009835148	0.0026
PULMCIRC	Pulmonary circulation disease	1	1.15631909	0.177717311	6.506507909	<.0001
RENLFAIL	Renal failure	1	0.44345433	0.088403738	5.016239582	<.0001
WGHTLOSS	Weight loss	1	0.799700707	0.149635828	5.344313046	<.0001
MDRG 205	Neurological Eye Disorders	1	-1.58447087	1.002749712	-1.58012598	0.1141
MDRG 814	Knee Procedures W/O PDX Of Infection	1	0.936403593	0.278909014	3.357380173	0.0008
MDRG 1405	Vaginal Delivery (W/O Or Proc)	1	-2.07770692	0.204411524	-10.1643336	<.0001
MDRG 1409	Abortion W/O D&C	1	1.693524666	0.378420835	4.475241606	<.0001
MDRG 1910	Acute Adjustment Reaction & Psychosocial Dysfunction	1	0.537270769	0.194727161	2.759095169	0.0058
MDRG 1913	Disorders Of Personality & Impulse Control	1	1.18655391	0.367794502	3.226132808	0.0013
MDRG 2019	Alcohol/Drug Abuse Or Dependence W Rehabilitation Therapy	1	-1.70052657	1.167719162	-1.45628043	0.1453
TRNSFER	Transfer from Another Acute Care Hospital	1	0.888605108	0.1066669	8.330654639	<.0001

c-statistic=0.895

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 2. Risk Adjustment Coefficients for PSI 03 Pressure Ulcer Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-7.97353575	0.105176765	-75.81081017	<.0001
Age	Male, Age < 30	1	0.143097242	0.160793988	0.889941493	0.3735
Age	Male, Age < 35	1	-0.198539392	0.140041518	-1.417718087	0.1563
Age	Male, Age < 40	1	0.032231678	0.125981256	0.255845028	0.7981
Age	Male, Age < 45	1	0.014230239	0.09893487	0.143834416	0.8856
Age	Male, Age < 50	1	0.012007409	0.094530719	0.127021237	0.8989
Age	Male, Age < 55	1	-0.10784149	0.076283117	-1.413700624	0.1574
Age	Male, Age < 60	1	-0.082416143	0.065653324	-1.255323235	0.2094
Age	Male, Age < 65	1	0.202804799	0.0719531	2.818569297	0.0048
Age	Male, Age >= 65	1	0.225308712	0.064199729	3.509496328	0.0004
Age	Male, Age >= 70	1	0.031999181	0.059158068	0.540909837	0.5886
Age	Male, Age >= 75	1	0.018771445	0.064966481	0.288940464	0.7726
Age	Male, Age >= 80	1	0.030685288	0.065162605	0.470903327	0.6377
Age	Male, Age >= 85	1	-0.165094329	0.087923146	-1.877711804	0.0604
Age	Male, Age >= 90	1	-0.171809691	0.109002945	-1.576193119	0.115
Age	Female, Age < 30	1	-0.011845794	0.226987494	-0.052186991	0.9584
Age	Female, Age < 35	1	-0.307333305	0.215668829	-1.425024225	0.1542
Age	Female, Age < 40	1	-0.020243675	0.17170003	-0.117901405	0.9061
Age	Female, Age < 45	1	-0.054599367	0.150445654	-0.36291754	0.7167
Age	Female, Age < 50	1	-0.34917044	0.128436022	-2.71863325	0.0066
Age	Female, Age < 55	1	0.001932122	0.092260761	0.020941968	0.9833
Age	Female, Age < 60	1	-0.164182705	0.081365007	-2.017854	0.0436
Age	Female, Age < 65	1	-0.002141697	0.077664002	-0.027576438	0.978
Age	Female, Age >= 70	1	-0.006244413	0.075878545	-0.082294839	0.9344
Age	Female, Age >= 75	1	0.1239089	0.074893824	1.654460845	0.098

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-7.97353575	0.105176765	-75.81081017	<.0001
Age	Female, Age >= 80	1	-0.018926295	0.071272421	-0.265548641	0.7906
Age	Female, Age >= 85	1	-0.17422588	0.07933221	-2.196155625	0.0281
Age	Female, Age >= 90	1	0.119726903	0.0933417	1.282673268	0.1996
DM	Diabetes w/o chronic complications	1	-0.213874554	0.04095754	-5.22186039	<.0001
CHF	Congestive heart failure	1	0.374109509	0.034533295	10.83329889	<.0001
ARTH	Rheumatoid arthritis/collagen vas	1	-0.092976923	0.066115782	-1.406274284	0.1596
COAG	Coagulopathy	1	0.23795183	0.036275803	6.559519396	<.0001
DMCX	Diabetes w/ chronic complications	1	0.216848553	0.034193727	6.341764252	<.0001
DRUG	Drug abuse	1	-0.109390417	0.065475798	-1.670700036	0.0948
METS	Metastatic cancer	1	0.107936012	0.059543179	1.812735116	0.0699
PARA	Paralysis	1	0.986856306	0.037820699	26.09302107	<.0001
HTN_C	Hypertension	1	-0.47411717	0.03259815	-14.54429671	<.0001
LIVER	Liver disease	1	-0.028312254	0.05121052	-0.552860109	0.5804
LYTES	Fluid and electrolyte disorders	1	0.231588771	0.035767307	6.474872988	<.0001
NEURO	Neurological disease	1	0.180310298	0.03938048	4.578671949	<.0001
OBESE	Obesity	1	0.088475195	0.035533863	2.489883918	0.0128
TUMOR	Solid tumor w/out metastasis	1	-0.134720476	0.071118982	-1.894297033	0.0582
ULCER	Peptic ulcer Disease x bleeding	1	0.28393792	0.0799402	3.551879035	0.0004
VALVE	Valvular disease	1	-0.056708378	0.049443153	-1.146940973	0.2514
ALCOHOL	Alcohol abuse	1	-0.184360125	0.057291118	-3.21795302	0.0013
ANEMDEF	Deficiency Anemias	1	0.002213938	0.032981567	0.067126531	0.9465
DEPRESS	Depression	1	-0.289979508	0.03833883	-7.563598245	<.0001
HYPOTHY	Hypothyroidism	1	-0.359152137	0.038749602	-9.26853744	<.0001
CHRNLUNG	Chronic pulmonary disease	1	-0.239390136	0.030834194	-7.763787783	<.0001
PERIVASC	Peripheral vascular disease	1	0.210214212	0.037543	5.5992918	<.0001
PULMCIRC	Pulmonary circulation disease	1	0.297205956	0.050176244	5.923240461	<.0001
RENLFAIL	Renal failure	1	0.315055929	0.030923363	10.18828169	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-7.97353575	0.105176765	-75.81081017	<.0001
WGHTLOSS	Weight loss	1	0.988084698	0.038085214	25.94405026	<.0001
MDC_1	MDC 1: Nervous System	1	1.000056237	0.077073327	12.97538695	<.0001
MDC_3	MDC 3: Ear Nose Mouth And Throat	1	-0.048205283	0.170839504	-0.282167074	0.7778
MDC_4	MDC 4: Respiratory System	1	0.369969625	0.068300436	5.416797395	<.0001
MDC_5	MDC 5: Circulatory System	1	1.088433141	0.082120244	13.25413924	<.0001
MDC_6	MDC 6: Digestive System	1	0.161324379	0.086555049	1.863835573	0.0623
MDC_8	MDC 8: Musculoskeletal And Connective	1	0.721797848	0.070593794	10.22466436	<.0001
MDC_10	MDC 10: Endocrine Nutritional And Metabolic	1	-0.04773843	0.090413079	-0.528003593	0.5975
MDC_16	MDC 16: Blood and Immunological	1	-0.180161887	0.185911789	-0.969071882	0.3325
MDC_17	MDC 17: Myeloproliferative DDs	1	0.434416351	0.129606675	3.351805377	0.0008
MDC_18	MDC 18: Infectious and Parasitic	1	0.539828163	0.056448699	9.563163948	<.0001
MDC_20	MDC 20: Alcohol/Drug Disorders	1	-1.740542721	0.342218699	-5.086053814	<.0001
MDC_23	MDC 23: Factors Influencing Health	1	0.434412245	0.120794327	3.596296756	0.0003
MDC_24	MDC 24: Multiple Significant Trauma	1	1.041762994	0.175055806	5.951033667	<.0001
MDRG_102	Cranio W Major Dev Impl/Acute Complex CNS PDX	1	-0.730656125	0.194847176	-3.74989332	0.0002
MDRG_103	Craniotomy & Endovascular Intracranial Procedures	1	-1.257124652	0.231157889	-5.438380927	<.0001
MDRG_104	Spinal Procedures	1	-0.195859976	0.243740963	-0.803557896	0.4217
MDRG_108	Periph/Cranial Nerve & Other Nerv Syst Proc	1	0.699231846	0.14212987	4.919668496	<.0001
MDRG_111	Degenerative Nervous System Disorders	1	-1.054812836	0.140428129	-7.511407044	<.0001
MDRG_113	Acute Ischemic Stroke W Use Of Thrombolytic Agent	1	-1.987163422	0.395964362	-5.018541094	<.0001
MDRG_114	Intracranial Hemorrhage Or Cerebral Infarction	1	-1.409930213	0.12495393	-11.28360037	<.0001
MDRG_125	Other Disorders Of Nervous System	1	-1.451456223	0.272293691	-5.330480549	<.0001
MDRG_128	Seizures	1	-1.303808177	0.191425519	-6.811046837	<.0001
MDRG_409	Chronic Obstructive Pulmonary Disease	1	-2.579292836	0.247680052	-10.41380932	<.0001
MDRG_410	Simple Pneumonia & Pleurisy	1	-1.08758464	0.129169712	-8.419811602	<.0001
MDRG_413	Bronchitis & Asthma	1	-2.050498933	0.479104942	-4.279853435	<.0001
MDRG_415	Other Respiratory System Diagnoses	1	-0.688067921	0.438452702	-1.569309342	0.1166

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-7.97353575	0.105176765	-75.81081017	<.0001
MDRG_416	Respiratory System Diagnosis W Ventilator Support	1	0.532551649	0.098928386	5.383203651	<.0001
MDRG_503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	-0.047174671	0.108586684	-0.434442508	0.664
MDRG_505	Other Cardiothoracic Procedures	1	-0.506751743	0.303116397	-1.671805777	0.0946
MDRG_509	Amputation For Circ Sys Disorders Exc Upper Limb & Toe	1	0.546677131	0.128820834	4.243701237	<.0001
MDRG_510	Permanent Cardiac Pacemaker Implant And Procedures	1	-1.630463061	0.248120586	-6.571252657	<.0001
MDRG_511	Perc Cardiovasc Proc W Drug-Eluting Stent	1	-2.035666985	0.20755681	-9.807758084	<.0001
MDRG_514	Other Vascular Procedures	1	-0.566146254	0.125949922	-4.495010771	<.0001
MDRG_520	Acute Myocardial Infarction	1	-1.608984181	0.158520942	-10.14997868	<.0001
MDRG_522	Circulatory Disorders Except Ami, W Card Cath	1	-2.477166467	0.338037653	-7.32807852	<.0001
MDRG_524	Heart Failure & Shock	1	-1.789764526	0.114371673	-15.64866964	<.0001
MDRG_527	Peripheral Vascular Disorders	1	-1.497258124	0.214547347	-6.97868394	<.0001
MDRG_529	Hypertension	1	-3.817761394	0.999450834	-3.819859131	0.0001
MDRG_531	Cardiac Arrhythmia & Conduction Disorders	1	-2.188425265	0.199206014	-10.98573894	<.0001
MDRG_533	Syncope & Collapse	1	-2.677660681	0.448259943	-5.973455183	<.0001
MDRG_535	Other Circulatory System Diagnoses	1	-1.474771814	0.209402236	-7.042770127	<.0001
MDRG_541	Aortic And Heart Assist Procedures Except Pulsation Balloon	1	0.327265675	0.213222649	1.534854184	0.1248
MDRG_542	Other Major Cardiovascular Procedures	1	-0.056363867	0.131993834	-0.427018943	0.6694
MDRG_601	Stomach, Esophageal & Duodenal Proc	1	0.597597514	0.129482703	4.615269057	<.0001
MDRG_602	Major Small & Large Bowel Procedures	1	0.366052327	0.10638286	3.440895729	0.0006
MDRG_611	Other Digestive System O.R. Procedures	1	0.181250253	0.205564108	0.881721303	0.3779
MDRG_613	Major Gastrointestinal Disorders & Peritoneal Infections	1	-0.832747275	0.234077627	-3.557568847	0.0004
MDRG_615	G.I. Hemorrhage	1	-1.042380207	0.175847766	-5.9277421	<.0001
MDRG_619	G.I. Obstruction	1	-1.387778573	0.249693293	-5.557932928	<.0001
MDRG_620	Esophagitis, Gastroent & Misc Digest Disorders	1	-1.907899256	0.222766313	-8.564577063	<.0001
MDRG_705	Laparoscopic Cholecystectomy W/O C.D.E.	1	-1.793511746	0.376472342	-4.763993385	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-7.97353575	0.105176765	-75.81081017	<.0001
MDRG_712	Disorders Of The Biliary Tract	1	-1.320109361	0.498215367	-2.649676123	0.0081
MDRG_803	Spinal Fusion Except Cervical	1	-1.269484353	0.221352418	-5.735127548	<.0001
MDRG_806	Revision Of Hip Or Knee Replacement	1	-0.453040436	0.226851753	-1.997077082	0.0458
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	-1.014155528	0.134129543	-7.561015311	<.0001
MDRG_808	Cervical Spinal Fusion	1	-0.240728306	0.21241157	-1.133310701	0.2571
MDRG_809	Amputation For Musculoskeletal Sys & Conn Tissue Dis	1	0.434866434	0.210848666	2.062457602	0.0392
MDRG_810	Biopsies Of Musculoskeletal System & Connective Tissue	1	-0.057875125	0.235057755	-0.246216617	0.8055
MDRG_811	Hip & Femur Procedures Except Major Joint	1	-0.312152601	0.107749629	-2.897017876	0.0038
MDRG_816	Lower Extrem & Humer Proc Except Hip,foot,femur	1	-1.131602676	0.299976917	-3.772299166	0.0002
MDRG_819	Soft Tissue Procedures	1	0.151408546	0.221245725	0.684345634	0.4938
MDRG_828	Fractures Of Hip & Pelvis	1	-0.543087935	0.251029012	-2.163446885	0.0305
MDRG_834	Medical Back Problems	1	-1.574689408	0.280291596	-5.61804004	<.0001
MDRG_838	Aftercare, Musculoskeletal System & Connective Tissue	1	-0.074831311	0.143553442	-0.521278418	0.6022
MDRG_840	Other Musculoskeletal Sys & Connective Tissue Diagnoses	1	-0.523397234	0.348817754	-1.50048909	0.1335
MDRG_907	Major Skin Disorders	1	0.041231138	0.600179319	0.068698031	0.9452
MDRG_910	Cellulitis	1	-0.859940764	0.179731859	-4.784576134	<.0001
MDRG_1104	Kidney & Ureter Procedures For Non-Neoplasm	1	0.092773914	0.245286494	0.378226752	0.7053
MDRG_1109	Other Kidney & Urinary Tract Procedures	1	0.841990277	0.158946347	5.297323872	<.0001
MDRG_1110	Renal Failure	1	-0.558522546	0.110461828	-5.056249374	<.0001
MDRG_1113	Kidney & Urinary Tract Infections	1	-0.654259975	0.124430537	-5.258033861	<.0001
MDRG_1604	Red Blood Cell Disorders	1	-1.031809025	0.366460448	-2.815608157	0.0049
MDRG_1715	Chemotherapy W/O Acute Leukemia As Secondary Diagnosis	1	-2.260665872	0.715673394	-3.158795468	0.0016
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	1.091708511	0.051785246	21.08145833	<.0001
MDRG_1802	Postoperative Or Post-Traumatic Infections W O.R.	1	0.330659328	0.162719087	2.03208692	0.0421

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-7.97353575	0.105176765	-75.81081017	<.0001
	Proc					
MDRG_1807	Septicemia Or Severe Sepsis W MV >96 Hours	1	1.183572159	0.075085559	15.76298002	<.0001
MDRG_1911	Depressive Neuroses	1	-2.098786143	0.58000307	-3.618577646	0.0003
MDRG_1915	Psychoses	1	-2.242107517	0.230874528	-9.711368076	<.0001
MDRG_2408	Other O.R. Procedures For Multiple Significant Trauma	1	0.623468065	0.197454236	3.157531983	0.0016
MDRG_2501	HIV W Extensive O.R. Procedure	1	1.785360241	0.356679976	5.005496137	<.0001
MDRG_7701	Heart Transplant Or Implant Of Heart Assist System	1	1.76203656	0.172028624	10.24269405	<.0001
MDRG_7703	Lung Transplant	1	1.014838876	0.672562236	1.508914449	0.1313
TRNSFER	Transfer from Another Acute Care Hospital	1	0.686559141	0.046754459	14.68435632	<.0001

c-statistic=0.809

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 3A. Risk Adjustment Coefficients for PSI 04A Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum A**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-4.451655106	0.164186095	-27.11347216	<.0001
Age	Male, Age < 30	1	-1.813536229	0.43738851	-4.146282279	<.0001
Age	Male, Age < 35	1	0.38140018	0.333976711	1.141996335	0.2535
Age	Male, Age < 40	1	0.335200751	0.345296729	0.970761443	0.3317
Age	Male, Age < 45	1	-0.033596966	0.313766637	-0.107076286	0.9147
Age	Male, Age < 50	1	-0.169298074	0.258537466	-0.654829941	0.5126
Age	Male, Age < 55	1	0.022690202	0.212678003	0.106688051	0.915
Age	Male, Age < 60	1	-0.410408097	0.169381015	-2.422987583	0.0154
Age	Male, Age < 65	1	-0.155459452	0.154948383	-1.003298323	0.3157
Age	Male, Age >= 65	1	-0.021449399	0.151948821	-0.141161998	0.8877
Age	Male, Age >= 70	1	-0.069185196	0.151020318	-0.458118466	0.6469
Age	Male, Age >= 75	1	-0.055471367	0.168833409	-0.328556813	0.7425
Age	Male, Age >= 80	1	0.488030203	0.177126036	2.755270853	0.0059
Age	Male, Age >= 85	1	0.204576333	0.222363687	0.920007827	0.3576
Age	Female, Age < 30	1	-2.591793858	1.047695321	-2.473804937	0.0134
Age	Female, Age < 35	1	-0.518133333	0.424042489	-1.221890133	0.2217
Age	Female, Age < 40	1	0.41101482	0.357130144	1.150882466	0.2498
Age	Female, Age < 45	1	-0.250263366	0.336764489	-0.743140605	0.4574
Age	Female, Age < 50	1	0.095737526	0.274637305	0.34859622	0.7274
Age	Female, Age < 55	1	-0.058617625	0.241060952	-0.243165161	0.8079
Age	Female, Age < 60	1	-0.087015519	0.203525135	-0.427541883	0.669
Age	Female, Age < 65	1	-0.342430064	0.165954396	-2.063398578	0.0391
Age	Female, Age >= 70	1	0.013453039	0.160547846	0.083794579	0.9332
Age	Female, Age >= 75	1	-0.033184025	0.172625195	-0.192231641	0.8476
Age	Female, Age >= 80	1	0.473286198	0.174072885	2.718896733	0.0066

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 85	1	0.056148647	0.176914412	0.317377464	0.751
DM	Diabetes w/o chronic complications	1	0.128377467	0.091701724	1.399946059	0.1615
CHF	Congestive heart failure	1	0.777844516	0.095220151	8.168906578	<.0001
ARTH	Rheumatoid arthritis/collagen vas	1	0.156483768	0.162941014	0.960370656	0.3369
COAG	Coagulopathy	1	0.593388773	0.094072732	6.307765905	<.0001
DRUG	Drug abuse	1	-0.343642904	0.230606615	-1.490169328	0.1362
METS	Metastatic cancer	1	0.588803762	0.093498108	6.297493863	<.0001
PARA	Paralysis	1	0.1123457	0.139160566	0.807309882	0.4195
HTN C	Hypertension	1	-0.292952521	0.067664421	-4.32949126	<.0001
LIVER	Liver disease	1	0.22372251	0.149273951	1.498737779	0.1339
LYMPH	Lymphoma	1	0.262555797	0.25479392	1.03046335	0.3028
LYTES	Fluid and electrolyte disorders	1	0.668808925	0.067644646	9.887093245	<.0001
NEURO	Neurological disease	1	-0.090420175	0.121345742	-0.745145019	0.4562
OBESE	Obesity	1	-0.122230252	0.080740591	-1.513863721	0.1301
VALVE	Valvular disease	1	-0.151526595	0.146168171	-1.036659304	0.2999
ALCOHOL	Alcohol abuse	1	-0.188058827	0.177869135	-1.05728758	0.2904
ANEMDEF	Deficiency Anemias	1	-0.178141243	0.077442158	-2.300313532	0.0214
BLDLOSS	Chronic blood loss anemia	1	-0.342493632	0.258878385	-1.322990454	0.1858
DEPRESS	Depression	1	-0.503712261	0.111852462	-4.503363206	<.0001
HYPOTHY	Hypothyroidism	1	-0.075603965	0.095570955	-0.791076793	0.4289
CHRNLUNG	Chronic pulmonary disease	1	0.039613235	0.07361816	0.538090528	0.5905
PERIVASC	Peripheral vascular disease	1	0.133988299	0.089487327	1.497287981	0.1343
PULMCIRC	Pulmonary circulation disease	1	-0.044802239	0.102533418	-0.436952555	0.6621
RENLFAIL	Renal failure	1	0.675457517	0.081571805	8.28052682	<.0001
WGHTLOSS	Weight loss	1	0.325340369	0.089345485	3.641374485	0.0003
MDC_1	MDC 1: Nervous System	1	0.794335139	0.237388324	3.346142414	0.0008
MDC_4	MDC 4: Respiratory System	1	2.024913268	0.182312543	11.1068237	<.0001
MDC_5	MDC 5: Circulatory System	1	1.852071693	0.154428238	11.99308961	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC_7	MDC 7: Hepatobiliary System And Pancreas	1	0.565282413	0.224295801	2.520254111	0.0117
MDC_12	MDC 12: Male Reproductive System	1	-1.215977438	0.962072279	-1.263914848	0.2063
MDC_16	MDC 16: Blood and Immunological	1	0.369560455	0.605051109	0.610792129	0.5413
MDC_18	MDC 18: Infectious and Parasitic	1	2.380140924	0.325984742	7.301387506	<.0001
MDC_21	MDC 21: Injuries Poison And Toxic	1	0.806901532	0.257130021	3.138107046	0.0017
MDRG_101	Intracranial Vascular Procedures W PDX Hemorrhage	1	0.800672536	0.450860115	1.775877948	0.0758
MDRG_102	Cranio W Major Dev Impl/Acute Complex CNS PDX	1	1.38407618	0.266851965	5.186681614	<.0001
MDRG_103	Craniotomy & Endovascular Intracranial Procedures	1	0.538735723	0.270968344	1.988186944	0.0468
MDRG_401	Major Chest Procedures	1	-0.343857771	0.218259557	-1.575453445	0.1152
MDRG_402	Other Resp System O.R. Procedures	1	-0.372276519	0.21955488	-1.695596652	0.09
MDRG_502	Perc Cardiovasc Proc W Non-Drug-Eluting Stent	1	-1.241682702	0.517957446	-2.397267791	0.0165
MDRG_503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	0.146871749	0.20012131	0.733913593	0.463
MDRG_504	Cardiac Defibrillator Implant	1	-1.556894578	0.704147888	-2.211033512	0.027
MDRG_509	Amputation For Circ Sys Disorders Exc Upper Limb & Toe	1	-0.835483565	0.360522201	-2.317426118	0.0205
MDRG_511	Perc Cardiovasc Proc W Drug-Eluting Stent	1	-0.593855017	0.213295686	-2.784186727	0.0054
MDRG_513	Perc Cardiovasc Proc W/O Coronary Artery Stent	1	0.257237932	0.361613631	0.711361272	0.4769
MDRG_514	Other Vascular Procedures	1	-0.776075794	0.188513338	-4.116821675	<.0001
MDRG_519	Other Circulatory System O.R. Procedures	1	-1.343563382	0.590611975	-2.274866476	0.0229
MDRG_540	Endovascular Cardiac Valve Replacement	1	-1.024163401	0.453814889	-2.256786689	0.024
MDRG_542	Other Major Cardiovascular Procedures	1	-0.188393551	0.161926382	-1.163451868	0.2446
MDRG_543	Percutaneous Intracardiac Procedures	1	-1.918343099	0.730040916	-2.627719978	0.0086
MDRG_601	Stomach, Esophageal & Duodenal Proc	1	0.315977143	0.255297945	1.237679931	0.2158
MDRG_602	Major Small & Large Bowel Procedures	1	0.045870379	0.20632583	0.222320101	0.8241
MDRG_610	Hernia Procedures Except Inguinal & Femoral	1	1.245139177	0.345757917	3.601187753	0.0003
MDRG_611	Other Digestive System O.R. Procedures	1	0.671659018	0.321787982	2.087271914	0.0369
MDRG_803	Spinal Fusion Except Cervical	1	-0.114644091	0.350817756	-0.326791016	0.7438

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_806	Revision Of Hip Or Knee Replacement	1	-0.596874529	0.583609662	-1.022729006	0.3064
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	-0.295111325	0.186866369	-1.579263975	0.1143
MDRG_810	Biopsies Of Musculoskeletal System & Connective Tissue	1	0.672266002	0.363334281	1.850268576	0.0643
MDRG_811	Hip & Femur Procedures Except Major Joint	1	0.647933819	0.171900528	3.769236937	0.0002
MDRG_816	Lower Extrem & Humer Proc Except Hip,foot,femur	1	0.475581604	0.329471502	1.443468103	0.1489
MDRG_1102	Major Bladder Procedures	1	-1.15096164	0.968173214	-1.188797235	0.2345
MDRG_1107	Transurethral Procedures	1	-1.152414509	0.971566788	-1.186140287	0.2356
MDRG_1601	Splenectomy	1	1.574045644	0.820293223	1.918881687	0.055
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	-0.595982828	0.316817385	-1.881155695	0.06
MDRG_1802	Postoperative Or Post-Traumatic Infections W O.R. Proc	1	-1.838146505	0.446761638	-4.114378564	<.0001
MDRG_2406	Craniotomy For Multiple Significant Trauma	1	3.126095085	0.434438406	7.195715303	<.0001
MDRG_2407	Limb Reattachment, Hip & Femur Proc For Multiple Significant Trauma	1	1.31221391	0.277669225	4.725816885	<.0001
MDRG_2408	Other O.R. Procedures For Multiple Significant Trauma	1	1.506584517	0.216987619	6.943181929	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.254352752	0.080760748	3.14946009	0.0016
XPPS04_DVT_PE_ANY	PSI04_DVT_PE   Any Triggering Complication POA	1	-0.516031175	0.079129568	-6.521344512	<.0001
XPPS04_DVT_PE_SEVERE	PSI04_DVT_PE   Triggering Complication Severe	1	0.843292995	0.073097265	11.53658758	<.0001

c-statistic=0.817

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 3B. Risk Adjustment Coefficients for PSI 04B Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum B**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-2.742937536	0.067003458	-40.93725358	<.0001
Age	Male, Age < 30	1	-0.016667219	0.154541529	-0.107849449	0.9141
Age	Male, Age < 35	1	-0.200406136	0.171872605	-1.166015582	0.2436
Age	Male, Age < 40	1	-0.217572729	0.140127217	-1.552680014	0.1205
Age	Male, Age < 45	1	-0.061917527	0.110298198	-0.561364817	0.5745
Age	Male, Age < 50	1	-0.133451971	0.090755745	-1.470452039	0.1414
Age	Male, Age < 55	1	-0.106354427	0.069276564	-1.535215086	0.1247
Age	Male, Age < 60	1	-0.056964484	0.062306923	-0.914256099	0.3606
Age	Male, Age < 65	1	-0.04109659	0.066833014	-0.614914517	0.5386
Age	Male, Age >= 65	1	0.056358054	0.064624856	0.87208015	0.3832
Age	Male, Age >= 70	1	0.145800262	0.053331092	2.733869794	0.0063
Age	Male, Age >= 75	1	0.110523882	0.052574358	2.102239306	0.0355
Age	Male, Age >= 80	1	0.159640569	0.058695728	2.719798765	0.0065
Age	Male, Age >= 85	1	0.068191942	0.06537675	1.043061058	0.2969
Age	Female, Age < 30	1	-0.4996216	0.201063027	-2.484900411	0.013
Age	Female, Age < 35	1	0.148288873	0.220643334	0.672075021	0.5015
Age	Female, Age < 40	1	0.04286046	0.198753085	0.215646764	0.8293
Age	Female, Age < 45	1	-0.478814499	0.15725894	-3.044752172	0.0023
Age	Female, Age < 50	1	0.203260442	0.109780561	1.85151578	0.0641
Age	Female, Age < 55	1	-0.216911281	0.093336649	-2.323966893	0.0201
Age	Female, Age < 60	1	0.026435522	0.082666036	0.319786984	0.7491
Age	Female, Age < 65	1	-0.164115777	0.076967301	-2.132279238	0.033
Age	Female, Age >= 70	1	0.181750567	0.06988352	2.600764322	0.0093
Age	Female, Age >= 75	1	0.037219941	0.06878843	0.541078505	0.5885
Age	Female, Age >= 80	1	0.124394121	0.070191698	1.772205608	0.0764

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-2.742937536	0.067003458	-40.93725358	<.0001
Age	Female, Age >= 85	1	0.243341865	0.07269167	3.347589421	0.0008
CHF	Congestive heart failure	1	0.282505645	0.03478791	8.120799648	<.0001
COAG	Coagulopathy	1	0.527100524	0.033609874	15.68290676	<.0001
DMCX	Diabetes w/ chronic complications	1	-0.034024839	0.03265384	-1.041985853	0.2974
DRUG	Drug abuse	1	-0.367883435	0.067710543	-5.433178052	<.0001
METS	Metastatic cancer	1	0.703271731	0.049877331	14.10002725	<.0001
PARA	Paralysis	1	-0.166981876	0.044312972	-3.76823915	0.0002
HTN C	Hypertension	1	-0.268453159	0.025079835	-10.70394449	<.0001
LIVER	Liver disease	1	0.386438888	0.046051231	8.391499585	<.0001
LYMPH	Lymphoma	1	0.30189182	0.099887007	3.022333218	0.0025
LYTES	Fluid and electrolyte disorders	1	0.483226162	0.02364117	20.44002721	<.0001
OBESE	Obesity	1	-0.056434558	0.0329111808	-1.714720702	0.0864
PSYCH	Psychoses	1	-0.217503008	0.072879649	-2.984413479	0.0028
TUMOR	Solid tumor w/out metastasis	1	0.169065369	0.062408867	2.708995985	0.0067
VALVE	Valvular disease	1	0.056013733	0.049772592	1.125393143	0.2604
ALCOHOL	Alcohol abuse	1	-0.067650633	0.045919348	-1.473248976	0.1407
ANEMDEF	Deficiency Anemias	1	-0.246097041	0.027773822	-8.860755367	<.0001
DEPRESS	Depression	1	-0.289489157	0.039902049	-7.254994741	<.0001
HYPOTHY	Hypothyroidism	1	-0.154714463	0.036706571	-4.214898231	<.0001
CHRNLUNG	Chronic pulmonary disease	1	-0.113586171	0.026406829	-4.301393766	<.0001
PERIVASC	Peripheral vascular disease	1	0.07967904	0.033537526	2.375817482	0.0175
PULMCIRC	Pulmonary circulation disease	1	0.177962226	0.052185459	3.410188006	0.0006
RENLFAIL	Renal failure	1	0.3075288	0.029865824	10.29701358	<.0001
WGHTLOSS	Weight loss	1	0.146570906	0.033871219	4.327299366	<.0001
MDC_1	MDC 1: Nervous System	1	-0.451036069	0.065897281	-6.844532312	<.0001
MDC_3	MDC 3: Ear Nose Mouth And Throat	1	-1.703049575	0.183605712	-9.275580598	<.0001
MDC_6	MDC 6: Digestive System	1	-0.765619339	0.049967599	-15.32231582	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-2.742937536	0.067003458	-40.93725358	<.0001
MDC 7	MDC 7: Hepatobiliary System And Pancreas	1	-0.807194209	0.114615528	-7.042625203	<.0001
MDC 8	MDC 8: Musculoskeletal And Connective	1	-0.952624162	0.073221784	-13.01011956	<.0001
MDC 9	MDC 9: Skin Subcutaneous And Breast	1	-0.595746784	0.154894136	-3.846154544	0.0001
MDC 10	MDC 10: Endocrine Nutritional And Metabolic	1	-1.045041509	0.173396518	-6.026888662	<.0001
MDC 11	MDC 11: Kidney And Urinary Tract	1	-1.451861978	0.129631935	-11.19987896	<.0001
MDC 12	MDC 12: Male Reproductive System	1	-1.831387729	0.443702832	-4.127509668	<.0001
MDC 13	MDC 13: Female Reproductive System	1	-1.263180602	0.224725003	-5.621006045	<.0001
MDC 14	MDC 14: Pregnancy Childbirth And Puerperium	1	-2.205476766	0.4547855	-4.849487868	<.0001
MDC 18	MDC 18: Infectious and Parasitic	1	0.262713942	0.069749242	3.766549046	0.0002
MDRG 101	Intracranial Vascular Procedures W PDX Hemorrhage	1	1.42548534	0.096244987	14.81100874	<.0001
MDRG 102	Cranio W Major Dev Impl/Acute Complex CNS PDX	1	1.734830813	0.074696348	23.22510872	<.0001
MDRG 103	Craniotomy & Endovascular Intracranial Procedures	1	1.161335508	0.081302218	14.28417991	<.0001
MDRG 501	Other Heart Assist System Implant	1	1.456707066	0.173594309	8.391444823	<.0001
MDRG 502	Perc Cardiovasc Proc W Non-Drug-Eluting Stent	1	0.41812359	0.095357647	4.384793486	<.0001
MDRG 503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	0.136059132	0.069688878	1.952379437	0.0509
MDRG 504	Cardiac Defibrillator Implant	1	-1.612051942	0.250706932	-6.430025395	<.0001
MDRG 507	Coronary Bypass W/O PTCA	1	-0.68642914	0.09963667	-6.889322387	<.0001
MDRG 510	Permanent Cardiac Pacemaker Implant And Procedures	1	-1.107176329	0.254063745	-4.357868259	<.0001
MDRG 513	Perc Cardiovasc Proc W/O Coronary Artery Stent	1	0.699232321	0.132282069	5.285919141	<.0001
MDRG 514	Other Vascular Procedures	1	0.1828995	0.080707723	2.266195766	0.0234
MDRG 542	Other Major Cardiovascular Procedures	1	0.907368194	0.054629018	16.6096376	<.0001
MDRG 604	Peritoneal Adhesiolysis	1	-0.554131442	0.174424719	-3.17690889	0.0015
MDRG 610	Hernia Procedures Except Inguinal & Femoral	1	-1.049843447	0.288192272	-3.642857732	0.0003
MDRG 705	Laparoscopic Cholecystectomy W/O C.D.E.	1	-0.619788234	0.183301693	-3.381246633	0.0007
MDRG 803	Spinal Fusion Except Cervical	1	-0.971703594	0.263870598	-3.682500439	0.0002

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-2.742937536	0.067003458	-40.93725358	<.0001
MDRG_805	Wnd Debrid & Skn Grft Exc Hand, For Musculo-Conn Tiss Dis	1	0.79400534	0.168774056	4.70454617	<.0001
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	-0.166940415	0.100597221	-1.659493308	0.097
MDRG_811	Hip & Femur Procedures Except Major Joint	1	0.28638392	0.092070339	3.110490548	0.0019
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	0.091612459	0.068221463	1.342868588	0.1793
MDRG_2406	Craniotomy For Multiple Significant Trauma	1	2.30438114	0.129226103	17.83216458	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.239286379	0.032587307	7.342932002	<.0001
XPPS04_PNEUMONIA_ANY	PSI04_PNEUMONIA   Any Triggering Complication POA	1	-0.008802905	0.026973144	-0.326358144	0.7442
XPPS04_PNEUMONIA_SEVERE	PSI04_PNEUMONIA   Triggering Complication Severe	1	0.626153306	0.023975672	26.11619452	<.0001

c-statistic=0.773

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 3C. Risk Adjustment Coefficients for PSI 04C Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum C**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-2.48286782	0.061786292	-40.18476813	<.0001
Age	Male, Age < 30	1	-0.187629466	0.154076939	-1.217764753	0.2233
Age	Male, Age < 35	1	0.05004977	0.168830516	0.296449785	0.7669
Age	Male, Age < 40	1	-0.163022285	0.143174424	-1.138627143	0.2549
Age	Male, Age < 45	1	0.018121371	0.118379472	0.153078657	0.8783
Age	Male, Age < 50	1	-0.187167595	0.091589971	-2.043538091	0.041
Age	Male, Age < 55	1	-0.217712202	0.076422575	-2.84879439	0.0044
Age	Male, Age < 60	1	0.002165165	0.066293003	0.032660533	0.9739
Age	Male, Age < 65	1	-0.144038897	0.064262456	-2.241415997	0.025
Age	Male, Age >= 65	1	0.02808101	0.060250775	0.466068856	0.6412
Age	Male, Age >= 70	1	0.092294997	0.053736421	1.717550139	0.0859
Age	Male, Age >= 75	1	0.096553188	0.057699817	1.673370777	0.0943
Age	Male, Age >= 80	1	0.210158792	0.065318417	3.21745078	0.0013
Age	Male, Age >= 85	1	0.171151373	0.078258897	2.186989325	0.0287
Age	Female, Age < 30	1	0.133458735	0.196093989	0.680585547	0.4961
Age	Female, Age < 35	1	-0.021055153	0.215061309	-0.097903028	0.922
Age	Female, Age < 40	1	-0.206526144	0.17816085	-1.159211714	0.2464
Age	Female, Age < 45	1	-0.152132236	0.135817654	-1.120121214	0.2627
Age	Female, Age < 50	1	-0.029004906	0.116176018	-0.249663458	0.8028
Age	Female, Age < 55	1	-0.260491512	0.09067964	-2.872657088	0.0041
Age	Female, Age < 60	1	0.082609359	0.080674899	1.023978465	0.3058
Age	Female, Age < 65	1	-0.195960836	0.070724184	-2.770775496	0.0056
Age	Female, Age >= 70	1	0.197488939	0.063422772	3.113849074	0.0018
Age	Female, Age >= 75	1	0.217753857	0.064371869	3.382748708	0.0007
Age	Female, Age >= 80	1	0.075511005	0.069509001	1.086348584	0.2773

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 85	1	0.247690084	0.078018302	3.174768981	0.0015
CHF	Congestive heart failure	1	0.196861907	0.03831784	5.13760444	<.0001
COAG	Coagulopathy	1	0.529496439	0.035461459	14.9316033	<.0001
DMCX	Diabetes w/ chronic complications	1	-0.184163962	0.034753834	-5.299097679	<.0001
DRUG	Drug abuse	1	-0.311279309	0.076282174	-4.080629766	<.0001
METS	Metastatic cancer	1	0.478123375	0.046755995	10.22592656	<.0001
PARA	Paralysis	1	-0.155537337	0.052232553	-2.977785469	0.0029
HTN C	Hypertension	1	-0.15337164	0.026516259	-5.784060173	<.0001
LIVER	Liver disease	1	0.448414997	0.04446455	10.08477539	<.0001
LYMPH	Lymphoma	1	0.465938174	0.115370413	4.03862796	<.0001
LYTES	Fluid and electrolyte disorders	1	0.346246984	0.025613704	13.51803651	<.0001
NEURO	Neurological disease	1	-0.082232326	0.042993347	-1.912675602	0.0558
OBESE	Obesity	1	-0.180547145	0.03391542	-5.323453042	<.0001
PSYCH	Psychoses	1	-0.285434686	0.079260823	-3.601207683	0.0003
VALVE	Valvular disease	1	0.088519102	0.053252857	1.662241381	0.0965
ANEMDEF	Deficiency Anemias	1	-0.290980989	0.030420466	-9.565303319	<.0001
DEPRESS	Depression	1	-0.22238249	0.042251678	-5.26328186	<.0001
HYPOTHY	Hypothyroidism	1	-0.082989651	0.03976506	-2.086999253	0.0369
CHRNLUNG	Chronic pulmonary disease	1	0.043087719	0.029114512	1.479939623	0.1389
PERIVASC	Peripheral vascular disease	1	0.145511406	0.03395558	4.285345971	<.0001
PULMCIRC	Pulmonary circulation disease	1	0.151210717	0.054289349	2.785274087	0.0053
RENLFAIL	Renal failure	1	0.290807322	0.028301349	10.2753875	<.0001
MDC_1	MDC 1: Nervous System	1	0.029369618	0.076596594	0.383432429	0.7014
MDC_4	MDC 4: Respiratory System	1	0.848150396	0.054845939	15.46423338	<.0001
MDC_5	MDC 5: Circulatory System	1	0.765731849	0.044943553	17.03763479	<.0001
MDC_7	MDC 7: Hepatobiliary System And Pancreas	1	0.189193206	0.065921861	2.869961543	0.0041
MDC_8	MDC 8: Musculoskeletal And Connective	1	-0.26848962	0.054524426	-4.924208148	<.0001
MDC_10	MDC 10: Endocrine Nutritional And Metabolic	1	-0.721393404	0.128925193	-5.595441714	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC_11	MDC 11: Kidney And Urinary Tract	1	-0.221890051	0.080713534	-2.749105893	0.006
MDC_14	MDC 14: Pregnancy Childbirth And Puerperium	1	-1.191949886	0.250115846	-4.765591251	<.0001
MDC_17	MDC 17: Myeloproliferative DDs	1	0.703779042	0.096522494	7.291347488	<.0001
MDC_21	MDC 21: Injuries Poison And Toxic	1	-0.159172543	0.078311791	-2.032548873	0.0421
MDC_22	MDC 22: Burns	1	1.266971032	0.142370976	8.899082268	<.0001
MDC_24	MDC 24: Multiple Significant Trauma	1	1.031923223	0.078727667	13.10750418	<.0001
MDRG_101	Intracranial Vascular Procedures W PDX Hemorrhage	1	1.102190757	0.12553043	8.780267541	<.0001
MDRG_102	Cranio W Major Dev Impl/Acute Complex CNS PDX	1	1.49525468	0.104559143	14.30056367	<.0001
MDRG_103	Craniotomy & Endovascular Intracranial Procedures	1	0.931562159	0.114306398	8.149693915	<.0001
MDRG_501	Other Heart Assist System Implant	1	1.461383439	0.218311291	6.694035065	<.0001
MDRG_503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	0.414931587	0.063366072	6.548166459	<.0001
MDRG_507	Coronary Bypass W/O PTCA	1	-0.246030312	0.086466032	-2.845398444	0.0044
MDRG_509	Amputation For Circ Sys Disorders Exc Upper Limb & Toe	1	-0.358802822	0.115698714	-3.101182443	0.0019
MDRG_541	Aortic And Heart Assist Procedures Except Pulsation Balloon	1	0.397622963	0.112298739	3.540760711	0.0004
MDRG_542	Other Major Cardiovascular Procedures	1	0.691219875	0.060079971	11.50499675	<.0001
MDRG_602	Major Small & Large Bowel Procedures	1	-0.032638629	0.042951019	-0.759903495	0.4473
MDRG_611	Other Digestive System O.R. Procedures	1	0.985089361	0.096880071	10.16813215	<.0001
MDRG_811	Hip & Femur Procedures Except Major Joint	1	0.449706987	0.078950725	5.696046359	<.0001
MDRG_1104	Kidney & Ureter Procedures For Non-Neoplasm	1	-1.002892324	0.192960326	-5.197401694	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.27334591	0.034426459	7.939994928	<.0001
XPPS04_SEPSI_S_ANY	PSI04_SEPSIS   Any Triggering Complication POA	1	-0.480845736	0.030008723	-16.02353219	<.0001
XPPS04_SEPSI_S_SEVERE	PSI04_SEPSIS   Triggering Complication Severe	1	1.320600038	0.02659767	49.65096671	<.0001

c-statistic=0.779

**Table 3D. Risk Adjustment Coefficients for PSI 04D Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum D**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-2.118044877	0.072341518	-29.27841332	<.0001
Age	Male, Age < 30	1	-0.29030523	0.157336249	-1.845126167	0.065
Age	Male, Age < 35	1	0.42340469	0.163438977	2.590598013	0.0096
Age	Male, Age < 40	1	-0.174227446	0.149305842	-1.166916467	0.2432
Age	Male, Age < 45	1	-0.033097125	0.121204823	-0.273067723	0.7848
Age	Male, Age < 50	1	0.006723917	0.103967995	0.064672948	0.9484
Age	Male, Age < 55	1	0.000508389	0.086510898	0.005876594	0.9953
Age	Male, Age < 60	1	-0.141632806	0.075142107	-1.884866059	0.0594
Age	Male, Age < 65	1	-0.031332991	0.074185901	-0.422357756	0.6728
Age	Male, Age >= 65	1	-0.04555547	0.073470083	-0.6200547	0.5352
Age	Male, Age >= 70	1	0.115898148	0.069352941	1.671135321	0.0947
Age	Male, Age >= 75	1	0.138260401	0.077784416	1.777482033	0.0755
Age	Male, Age >= 80	1	0.028027525	0.087161345	0.321559114	0.7478
Age	Male, Age >= 85	1	0.327458086	0.108522502	3.017421089	0.0025
Age	Female, Age < 30	1	0.114235265	0.142245758	0.803083803	0.4219
Age	Female, Age < 35	1	-0.182452992	0.144835935	-1.259721853	0.2078
Age	Female, Age < 40	1	0.123046133	0.134917004	0.912013527	0.3618
Age	Female, Age < 45	1	-0.06606087	0.138739662	-0.476149859	0.634
Age	Female, Age < 50	1	0.065670833	0.117737897	0.557771411	0.577
Age	Female, Age < 55	1	-0.069068539	0.093699151	-0.737130896	0.461
Age	Female, Age < 60	1	-0.119226802	0.089220495	-1.336316304	0.1814
Age	Female, Age < 65	1	-0.182421104	0.077816217	-2.344255636	0.0191
Age	Female, Age >= 70	1	0.022809712	0.07807823	0.292139207	0.7702
Age	Female, Age >= 75	1	0.259007836	0.083638477	3.096754568	0.002
Age	Female, Age >= 80	1	0.077153175	0.093877352	0.821850782	0.4112

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 85	1	0.449321448	0.100202781	4.484121519	<.0001
DM	Diabetes w/o chronic complications	1	0.060787794	0.04159492	1.461423532	0.1439
CHF	Congestive heart failure	1	0.104689252	0.039690329	2.637651383	0.0083
COAG	Coagulopathy	1	0.36843729	0.041706644	8.834019149	<.0001
DMCX	Diabetes w/ chronic complications	1	-0.183082071	0.04021706	-4.55234848	<.0001
METS	Metastatic cancer	1	0.514890784	0.053272172	9.665286098	<.0001
PARA	Paralysis	1	-0.289750169	0.06247907	-4.637555751	<.0001
LIVER	Liver disease	1	0.43663296	0.050209441	8.696232252	<.0001
LYTES	Fluid and electrolyte disorders	1	0.484605863	0.03012928	16.08421636	<.0001
OBESE	Obesity	1	-0.162307311	0.036154906	-4.489219511	<.0001
ALCOHOL	Alcohol abuse	1	0.108143167	0.058547317	1.847107135	0.0647
ANEMDEF	Deficiency Anemias	1	-0.105674556	0.036860332	-2.866891062	0.0041
BLDLOSS	Chronic blood loss anemia	1	-0.393554238	0.094194307	-4.178110662	<.0001
DEPRESS	Depression	1	-0.336267717	0.045474305	-7.394675175	<.0001
HYPOTHY	Hypothyroidism	1	-0.164756928	0.043876835	-3.754986601	0.0002
PERIVASC	Peripheral vascular disease	1	0.259728968	0.04373033	5.939332521	<.0001
RENLFAIL	Renal failure	1	0.07960853	0.03807677	2.090737452	0.0366
WGHTLOSS	Weight loss	1	-0.141968423	0.040979028	-3.464416518	0.0005
MDC 1	MDC 1: Nervous System	1	-0.055182654	0.095795689	-0.576045272	0.5646
MDC 6	MDC 6: Digestive System	1	0.403556378	0.045672362	8.835898984	<.0001
MDC 7	MDC 7: Hepatobiliary System And Pancreas	1	0.413116623	0.057228175	7.218762818	<.0001
MDC 8	MDC 8: Musculoskeletal And Connective	1	-0.285114521	0.054811774	-5.201702152	<.0001
MDC 13	MDC 13: Female Reproductive System	1	-0.521051501	0.10516346	-4.954681984	<.0001
MDC 14	MDC 14: Pregnancy Childbirth And Puerperium	1	-0.86686403	0.12420819	-6.97912137	<.0001
MDC 17	MDC 17: Myeloproliferative DDs	1	0.681498942	0.109990468	6.195981857	<.0001
MDC 18	MDC 18: Infectious and Parasitic	1	0.113547697	0.09487316	1.196836882	0.2314
MDRG 101	Intracranial Vascular Procedures W PDX Hemorrhage	1	1.558715639	0.191789669	8.12721379	<.0001
MDRG 102	Cranio W Major Dev Impl/Acute Complex CNS	1	2.388443591	0.127552564	18.72517122	<.0001

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
	PDX					
MDRG_103	Craniotomy & Endovascular Intracranial Procedures	1	1.167455356	0.143129522	8.156635593	<.0001
MDRG_107	Extracranial Procedures	1	-0.564020958	0.180455028	-3.125548582	0.0018
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	0.719848867	0.092706228	7.764838292	<.0001
MDRG_7702	Liver Transplant	1	-1.267631632	0.126142167	-10.04922986	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.315881005	0.047998996	6.580991896	<.0001
XPPS04_SHOC_K_ANY	PSI04_SHOCK   Any Triggering Complication POA	1	-0.220152405	0.037063354	-5.939894367	<.0001
XPPS04_SHOC_K_SEVERE	PSI04_SHOCK   Triggering Complication Severe	1	2.068418007	0.033165254	62.36701929	<.0001

c-statistic=0.826

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 3E. Risk Adjustment Coefficients for PSI 04E Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum E**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-3.408508444	0.18080601	-18.85174302	<.0001
Age	Male, Age < 30	1	0.555756727	0.506621103	1.096986926	0.2726
Age	Male, Age < 35	1	-0.609997098	0.500634409	-1.218448207	0.2231
Age	Male, Age < 40	1	-0.368641425	0.35422129	-1.040709397	0.298
Age	Male, Age < 45	1	-0.114514068	0.237827599	-0.481500331	0.6302
Age	Male, Age < 50	1	0.250096694	0.200909904	1.244820136	0.2132
Age	Male, Age < 55	1	-0.397392301	0.15562322	-2.55355403	0.0107
Age	Male, Age < 60	1	-0.065581948	0.120608588	-0.543758524	0.5866
Age	Male, Age < 65	1	0.053539134	0.135518553	0.395068667	0.6928
Age	Male, Age >= 65	1	0.084565525	0.138241973	0.611721053	0.5407
Age	Male, Age >= 70	1	-0.032301676	0.123043545	-0.262522309	0.7929
Age	Male, Age >= 75	1	-0.056506781	0.134225665	-0.42098343	0.6738
Age	Male, Age >= 80	1	0.127995477	0.150207084	0.852126768	0.3941
Age	Male, Age >= 85	1	-0.066619501	0.193949174	-0.343489479	0.7312
Age	Female, Age < 30	1	-0.306223414	0.506792403	-0.604238366	0.5457
Age	Female, Age < 35	1	-0.049213154	0.476046902	-0.103378792	0.9177
Age	Female, Age < 40	1	-0.182426469	0.386407838	-0.472108613	0.6368
Age	Female, Age < 45	1	-0.168077691	0.302411902	-0.555790597	0.5784
Age	Female, Age < 50	1	-0.112345083	0.247104229	-0.454646543	0.6494
Age	Female, Age < 55	1	0.020145522	0.207039359	0.097302859	0.9225
Age	Female, Age < 60	1	0.177886576	0.187787193	0.947277463	0.3435
Age	Female, Age < 65	1	-0.238995289	0.17762312	-1.345519037	0.1785
Age	Female, Age >= 70	1	0.047542929	0.157774196	0.301335265	0.7632
Age	Female, Age >= 75	1	0.086776891	0.157178686	0.5520907	0.5809
Age	Female, Age >= 80	1	0.257111229	0.155028288	1.658479441	0.0972

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 85	1	0.124458776	0.166654754	0.746806034	0.4552
CHF	Congestive heart failure	1	0.305780397	0.086598334	3.531019385	0.0004
ARTH	Rheumatoid arthritis/collagen vas	1	-0.18915634	0.164551664	-1.149525539	0.2503
COAG	Coagulopathy	1	0.691043006	0.064750418	10.67240995	<.0001
DMCX	Diabetes w/ chronic complications	1	-0.192654595	0.074693576	-2.579265927	0.0099
DRUG	Drug abuse	1	-0.159076156	0.150641246	-1.055993365	0.291
METS	Metastatic cancer	1	0.564125019	0.113144304	4.985889683	<.0001
PARA	Paralysis	1	-0.237282635	0.13729454	-1.728274373	0.0839
HTN C	Hypertension	1	-0.319912439	0.056441608	-5.668024874	<.0001
LIVER	Liver disease	1	0.241853331	0.084095696	2.875929959	0.004
LYTES	Fluid and electrolyte disorders	1	0.9140587	0.055436777	16.48830876	<.0001
NEURO	Neurological disease	1	-1.73662E-05	0.098128463	-0.000176974	0.9999
OBESE	Obesity	1	-0.272287202	0.079861778	-3.409480844	0.0007
ULCER	Peptic ulcer Disease x bleeding	1	-0.425228039	0.089182745	-4.768052816	<.0001
ANEMDEF	Deficiency Anemias	1	-0.446102524	0.063197307	-7.058884985	<.0001
BLDLOSS	Chronic blood loss anemia	1	-0.718173613	0.138107551	-5.2001039	<.0001
DEPRESS	Depression	1	-0.355922753	0.101977866	-3.490196132	0.0005
HYPOTHY	Hypothyroidism	1	-0.313605031	0.088388589	-3.548026232	0.0004
CHRNLUNG	Chronic pulmonary disease	1	-0.072338893	0.063465849	-1.139808168	0.2544
PERIVASC	Peripheral vascular disease	1	0.092975989	0.066514584	1.397828622	0.1622
RENLFAIL	Renal failure	1	0.215670678	0.062796848	3.434418834	0.0006
WGHTLOSS	Weight loss	1	-0.030534226	0.078666533	-0.388147601	0.6979
MDC 1	MDC 1: Nervous System	1	0.649863613	0.232628784	2.793564932	0.0052
MDC 3	MDC 3: Ear Nose Mouth And Throat	1	-1.712325802	1.044837265	-1.638844498	0.1012
MDC 4	MDC 4: Respiratory System	1	1.707587185	0.158764424	10.75547749	<.0001
MDC 5	MDC 5: Circulatory System	1	1.335222345	0.149627638	8.923634443	<.0001
MDC 8	MDC 8: Musculoskeletal And Connective	1	-0.663533157	0.262204432	-2.530594743	0.0114
MDC 10	MDC 10: Endocrine Nutritional And Metabolic	1	-0.80793764	0.386097332	-2.092575042	0.0364

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC_11	MDC 11: Kidney And Urinary Tract	1	-1.097834689	0.362792907	-3.026064367	0.0025
MDC_18	MDC 18: Infectious and Parasitic	1	1.815810143	0.206442733	8.795708724	<.0001
MDRG_102	Cranio W Major Dev Impl/Acute Complex CNS PDX	1	1.995300858	0.256700708	7.772868533	<.0001
MDRG_501	Other Heart Assist System Implant	1	1.832595087	0.322288235	5.68619915	<.0001
MDRG_503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	0.530868867	0.115197293	4.608344976	<.0001
MDRG_504	Cardiac Defibrillator Implant	1	-1.48532429	0.599283605	-2.478499793	0.0132
MDRG_507	Coronary Bypass W/O PTCA	1	-1.052667005	0.248969734	-4.228092264	<.0001
MDRG_509	Amputation For Circ Sys Disorders Exc Upper Limb & Toe	1	-0.550700507	0.288043035	-1.911868851	0.0559
MDRG_510	Permanent Cardiac Pacemaker Implant And Procedures	1	-1.410344542	0.588993287	-2.394500197	0.0166
MDRG_540	Endovascular Cardiac Valve Replacement	1	-0.602877096	0.278139666	-2.167533686	0.0302
MDRG_541	Aortic And Heart Assist Procedures Except Pulsation Balloon	1	0.138828198	0.188798516	0.735324622	0.4621
MDRG_542	Other Major Cardiovascular Procedures	1	0.402910631	0.102441688	3.933072952	<.0001
MDRG_543	Percutaneous Intracardiac Procedures	1	-1.177495551	0.44483765	-2.647023136	0.0081
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	-1.265688057	0.61229055	-2.067136357	0.0387
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	-0.185162806	0.154605903	-1.197643832	0.2311
TRNSFER	Transfer from Another Acute Care Hospital	1	0.382916602	0.068131678	5.620243222	<.0001
XPPS04_GIHE_MORRHAGE_ANY	PSI04_GIHEMORRHAGE   Any Triggering Complication POA	1	-0.403525493	0.058356135	-6.914877008	<.0001
XPPS04_GIHE_MORRHAGE_SEVER	PSI04_GIHEMORRHAGE   Triggering Complication Severe	1	0.023871732	0.101011296	0.236327354	0.8132

c-statistic=0.801

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 4. Risk Adjustment Coefficients for PSI 06 Iatrogenic Pneumothorax Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-8.435002679	0.073650458	-114.5274981	<.0001
Age	Male, Age < 30	1	0.062514131	0.199355226	0.313581599	0.7538
Age	Male, Age < 35	1	0.230003828	0.228256781	1.007653867	0.3136
Age	Male, Age < 40	1	-0.142119246	0.208788549	-0.68068506	0.4961
Age	Male, Age < 45	1	0.029443585	0.179706972	0.163842197	0.8699
Age	Male, Age < 50	1	-0.148122281	0.153350161	-0.965908873	0.3341
Age	Male, Age < 55	1	-0.171393001	0.118607131	-1.445048032	0.1484
Age	Male, Age < 60	1	0.03355901	0.099347292	0.337794909	0.7355
Age	Male, Age < 65	1	-0.572742847	0.092037001	-6.222962953	<.0001
Age	Male, Age >= 65	1	-0.531184298	0.085756972	-6.194065447	<.0001
Age	Male, Age >= 70	1	-0.009050429	0.095845096	-0.09442767	0.9248
Age	Male, Age >= 75	1	0.274142004	0.09392401	2.918763855	0.0035
Age	Male, Age >= 80	1	0.058890349	0.09024575	0.652555374	0.514
Age	Male, Age >= 85	1	-0.085061723	0.101786092	-0.83569102	0.4033
Age	Male, Age >= 90	1	0.141216477	0.125497483	1.125253454	0.2605
Age	Female, Age < 30	1	0.280917991	0.192219757	1.461441817	0.1439
Age	Female, Age < 35	1	-0.19417128	0.200781723	-0.96707647	0.3335
Age	Female, Age < 40	1	0.083265386	0.178790047	0.465716003	0.6414
Age	Female, Age < 45	1	-0.221299909	0.159286756	-1.389317695	0.1647
Age	Female, Age < 50	1	-0.065024894	0.126715886	-0.51315503	0.6078
Age	Female, Age < 55	1	-0.049243796	0.115087873	-0.42787997	0.6687
Age	Female, Age < 60	1	-0.07170184	0.101635333	-0.705481428	0.4805
Age	Female, Age < 65	1	-0.197883349	0.08693574	-2.276202514	0.0228
Age	Female, Age >= 70	1	0.027235572	0.079532114	0.342447477	0.732
Age	Female, Age >= 75	1	0.034134929	0.07507751	0.454662513	0.6494

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 80	1	0.085897226	0.077119977	1.113812908	0.2654
Age	Female, Age >= 85	1	0.000328877	0.079195838	0.004152707	0.9967
Age	Female, Age >= 90	1	0.004523865	0.087306352	0.051815994	0.9587
DM	Diabetes w/o chronic complications	1	-0.452223762	0.044085191	-10.25795165	<.0001
CHF	Congestive heart failure	1	0.120175428	0.056660127	2.120987617	0.0339
ARTH	Rheumatoid arthritis/collagen vas	1	-0.117655786	0.0876561	-1.342242982	0.1795
COAG	Coagulopathy	1	0.155589578	0.05646108	2.755696125	0.0059
DMCX	Diabetes w/ chronic complications	1	-0.517315995	0.053596864	-9.651982606	<.0001
METS	Metastatic cancer	1	0.363212459	0.075994867	4.779434132	<.0001
PARA	Paralysis	1	0.083674369	0.074903365	1.1170976	0.264
HTN C	Hypertension	1	-0.178105267	0.032618177	-5.460307296	<.0001
LIVER	Liver disease	1	0.10991538	0.070853294	1.551309379	0.1208
LYTES	Fluid and electrolyte disorders	1	0.230238878	0.034346383	6.703438883	<.0001
OBESE	Obesity	1	-0.514168745	0.053151874	-9.673576946	<.0001
PSYCH	Psychoses	1	0.168517917	0.07833831	2.151155896	0.0315
TUMOR	Solid tumor w/out metastasis	1	0.30225611	0.08320444	3.632692057	0.0003
VALVE	Valvular disease	1	-0.048395266	0.078569989	-0.615951038	0.5379
ALCOHOL	Alcohol abuse	1	-0.100915819	0.078386382	-1.287415184	0.1979
ANEMDEF	Deficiency Anemias	1	-0.104732613	0.039178979	-2.673183859	0.0075
BLDLOSS	Chronic blood loss anemia	1	-0.205049938	0.157326767	-1.303337898	0.1925
DEPRESS	Depression	1	-0.1211133085	0.047944224	-2.526541804	0.0115
HYPOTHY	Hypothyroidism	1	0.050032	0.039845114	1.255662102	0.2092
CHRNLUNG	Chronic pulmonary disease	1	0.126476635	0.035109292	3.602369256	0.0003
PERIVASC	Peripheral vascular disease	1	0.061153521	0.053813224	1.136403225	0.2558
PULMCIRC	Pulmonary circulation disease	1	0.268331006	0.081473078	3.293492939	0.001
RENLFAIL	Renal failure	1	-0.076097035	0.042079484	-1.808411798	0.0705
WGHTLOSS	Weight loss	1	0.770282628	0.045855786	16.79793743	<.0001
MDRG 101	Intracranial Vascular Procedures W PDX Hemorrhage	1	2.939065373	0.206423983	14.23800342	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_102	Cranio W Major Dev Impl/Acute Complex CNS PDX	1	2.353127501	0.15274152	15.4059453	<.0001
MDRG_103	Craniotomy & Endovascular Intracranial Procedures	1	1.402066047	0.13941393	10.05685762	<.0001
MDRG_107	Extracranial Procedures	1	-0.948068439	0.520907217	-1.82003322	0.0688
MDRG_108	Periph/Cranial Nerve & Other Nerv Syst Proc	1	2.547295681	0.156244009	16.30331748	<.0001
MDRG_111	Degenerative Nervous System Disorders	1	-1.10000851	0.323208439	-3.403402807	0.0007
MDRG_114	Intracranial Hemorrhage Or Cerebral Infarction	1	-0.312174745	0.148461498	-2.102732011	0.0355
MDRG_117	Nonspecific Cerebrovascular Disorders	1	-0.595203222	0.385354807	-1.544558966	0.1225
MDRG_118	Cranial & Peripheral Nerve Disorders	1	-0.37585549	0.476662154	-0.788515486	0.4304
MDRG_123	Traumatic Stupor & Coma, Coma <1 Hr	1	-0.435587593	0.349525096	-1.246226946	0.2127
MDRG_125	Other Disorders Of Nervous System	1	-1.521349838	0.519592359	-2.927968073	0.0034
MDRG_128	Seizures	1	-0.486597382	0.242151785	-2.009472618	0.0445
MDRG_402	Other Resp System O.R. Procedures	1	2.081941916	0.191317853	10.88210999	<.0001
MDRG_403	Pulmonary Embolism	1	-1.50040206	0.461088299	-3.254044968	0.0011
MDRG_404	Respiratory Infections & Inflammations	1	-0.161735717	0.181413916	-0.891528725	0.3726
MDRG_405	Respiratory Neoplasms	1	2.462983422	0.123062065	20.0141565	<.0001
MDRG_408	Pulmonary Edema & Respiratory Failure	1	-0.843700308	0.224021685	-3.766154643	0.0002
MDRG_409	Chronic Obstructive Pulmonary Disease	1	-1.127104236	0.194901236	-5.782950701	<.0001
MDRG_410	Simple Pneumonia & Pleurisy	1	-0.764820991	0.15716852	-4.866247959	<.0001
MDRG_413	Bronchitis & Asthma	1	-2.259421285	0.701835591	-3.219302802	0.0013
MDRG_414	Respiratory Signs & Symptoms	1	0.615577322	0.381580634	1.61322999	0.1067
MDRG_415	Other Respiratory System Diagnoses	1	1.16125487	0.274639206	4.228292417	<.0001
MDRG_416	Respiratory System Diagnosis W Ventilator Support	1	2.043037577	0.08809711	23.19074457	<.0001
MDRG_504	Cardiac Defibrillator Implant	1	4.017343046	0.07928486	50.66973772	<.0001
MDRG_509	Amputation For Circ Sys Disorders Exc Upper Limb & Toe	1	-0.025784277	0.510913171	-0.050467042	0.9598
MDRG_510	Permanent Cardiac Pacemaker Implant And Procedures	1	4.132791453	0.055668754	74.2389788	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_511	Perc Cardiovasc Proc W Drug-Eluting Stent	1	-1.28615057	0.314577434	-4.088502329	<.0001
MDRG_514	Other Vascular Procedures	1	0.791419214	0.150528361	5.257608648	<.0001
MDRG_517	Cardiac Pacemaker Revision Except Device Replacement	1	2.971793784	0.213446914	13.92287068	<.0001
MDRG_520	Acute Myocardial Infarction	1	-0.36678916	0.201045903	-1.824405046	0.0681
MDRG_522	Circulatory Disorders Except Ami, W Card Cath	1	-0.15813214	0.201496461	-0.78478867	0.4326
MDRG_523	Acute & Subacute Endocarditis	1	0.61837862	0.725465666	0.85238854	0.394
MDRG_524	Heart Failure & Shock	1	-0.341855724	0.119216985	-2.867508557	0.0041
MDRG_527	Peripheral Vascular Disorders	1	-1.006886769	0.358576269	-2.808012846	0.005
MDRG_529	Hypertension	1	-1.843555946	0.708603789	-2.601673847	0.0093
MDRG_533	Syncope & Collapse	1	-1.533974394	0.4456996	-3.441722616	0.0006
MDRG_534	Chest Pain	1	-2.991316114	0.933029064	-3.206026725	0.0013
MDRG_535	Other Circulatory System Diagnoses	1	0.101173044	0.220071121	0.459728855	0.6457
MDRG_541	Aortic And Heart Assist Procedures Except Pulsation Balloon	1	0.77905663	0.328615023	2.370727375	0.0178
MDRG_542	Other Major Cardiovascular Procedures	1	1.733671209	0.156695692	11.06393662	<.0001
MDRG_601	Stomach, Esophageal & Duodenal Proc	1	1.480067734	0.152296393	9.718337405	<.0001
MDRG_602	Major Small & Large Bowel Procedures	1	0.786951227	0.10589366	7.431523529	<.0001
MDRG_604	Peritoneal Adhesiolysis	1	0.072937663	0.319988686	0.227938254	0.8197
MDRG_610	Hernia Procedures Except Inguinal & Femoral	1	-0.124928148	0.391020189	-0.319492833	0.7494
MDRG_611	Other Digestive System O.R. Procedures	1	1.201778309	0.189239366	6.350572486	<.0001
MDRG_614	Digestive Malignancy	1	0.726226201	0.215080156	3.376537453	0.0007
MDRG_615	G.I. Hemorrhage	1	-0.952619556	0.207212452	-4.597308451	<.0001
MDRG_618	Inflammatory Bowel Disease	1	-0.8045382	0.459556816	-1.75068277	0.08
MDRG_619	G.I. Obstruction	1	-1.301514525	0.304231493	-4.278040097	<.0001
MDRG_620	Esophagitis, Gastroent & Misc Digest Disorders	1	-1.507564719	0.240837989	-6.259663287	<.0001
MDRG_621	Other Digestive System Diagnoses	1	-0.624220468	0.250204469	-2.494841402	0.0126
MDRG_701	Pancreas, Liver & Shunt Procedures	1	2.222735977	0.169991625	13.0755617	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_702	Biliary Tract Proc Except Only Cholecyst W Or W/O C.D.E.	1	1.275913249	0.282715815	4.513059336	<.0001
MDRG_705	Laparoscopic Cholecystectomy W/O C.D.E.	1	-0.099429401	0.197045748	-0.504600593	0.6138
MDRG_708	Cirrhosis & Alcoholic Hepatitis	1	-0.543852036	0.39086192	-1.391417295	0.1641
MDRG_709	Malignancy Of Hepatobiliary System Or Pancreas	1	0.382316793	0.277380761	1.378310422	0.1681
MDRG_710	Disorders Of Pancreas Except Malignancy	1	-1.85703963	0.463444645	-4.007036545	<.0001
MDRG_711	Disorders Of Liver Except Malig,cirr,alc Hepa	1	-0.214185688	0.310825654	-0.689086261	0.4908
MDRG_712	Disorders Of The Biliary Tract	1	-0.401593056	0.323037576	-1.24317753	0.2138
MDRG_801	Combined Anterior/Posterior Spinal Fusion	1	1.9744366	0.183713194	10.74738595	<.0001
MDRG_803	Spinal Fusion Except Cervical	1	0.320953902	0.17147619	1.87171118	0.0612
MDRG_806	Revision Of Hip Or Knee Replacement	1	-1.049630498	0.511607806	-2.051631124	0.0402
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	-1.902389287	0.207603033	-9.163591015	<.0001
MDRG_808	Cervical Spinal Fusion	1	0.068100622	0.241439423	0.282060904	0.7779
MDRG_810	Biopsies Of Musculoskeletal System & Connective Tissue	1	1.35729264	0.237724307	5.709524011	<.0001
MDRG_815	Back & Neck Proc Exc Spinal Fusion Or Disc Device/Neurostim	1	-0.408415385	0.42135748	-0.969284763	0.3324
MDRG_816	Lower Extrem & Humer Proc Except Hip,foot,femur	1	-0.711546717	0.355200218	-2.003227141	0.0452
MDRG_826	Other Musculoskelet Sys & Conn Tiss O.R. Proc	1	0.202967422	0.278083071	0.729880538	0.4655
MDRG_828	Fractures Of Hip & Pelvis	1	-0.776096117	0.450694937	-1.721998749	0.0851
MDRG_834	Medical Back Problems	1	-1.531855992	0.462637748	-3.311134899	0.0009
MDRG_838	Aftercare, Musculoskeletal System & Connective Tissue	1	-2.201679378	0.710838568	-3.097298709	0.002
MDRG_903	Other Skin, Subcut Tiss & Breast Proc	1	1.272346734	0.171655207	7.412223355	<.0001
MDRG_910	Cellulitis	1	-1.734042639	0.335721251	-5.165126227	<.0001
MDRG_1003	O.R. Procedures For Obesity	1	-1.984126143	0.728747689	-2.722651714	0.0065
MDRG_1005	Thyroid, Parathyroid & Thyroglossal Procedures	1	1.46352659	0.308269027	4.747562874	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_1007	Diabetes	1	-0.741395437	0.218418253	-3.394384056	0.0007
MDRG_1010	Endocrine Disorders	1	-0.286498559	0.360289057	-0.795190843	0.4265
MDRG_1101	Kidney Transplant	1	1.320057899	0.402591217	3.278903865	0.001
MDRG_1103	Kidney & Ureter Procedures For Neoplasm	1	3.096162531	0.104242946	29.70141054	<.0001
MDRG_1104	Kidney & Ureter Procedures For Non-Neoplasm	1	1.964446523	0.143828776	13.65823018	<.0001
MDRG_1109	Other Kidney & Urinary Tract Procedures	1	0.618859358	0.357098052	1.733023619	0.0831
MDRG_1110	Renal Failure	1	-0.870530044	0.158064137	-5.507448199	<.0001
MDRG_1113	Kidney & Urinary Tract Infections	1	-2.268294284	0.352767712	-6.429994042	<.0001
MDRG_1115	Urinary Stones W/O Esw Lithotripsy	1	-1.475107609	0.700564116	-2.105599723	0.0352
MDRG_1304	Uterine & Adnexa Proc For Non-Malignancy	1	-0.738963238	0.307602636	-2.40233064	0.0163
MDRG_1603	Major Hematol/Immun Diag Exc Sickle Cell Crisis & Coagul	1	-2.601833738	1.098676311	-2.368153123	0.0179
MDRG_1604	Red Blood Cell Disorders	1	-1.822020779	0.418316614	-4.355602237	<.0001
MDRG_1707	Lymphoma & Leukemia W Major O.R. Procedure	1	1.49830766	0.418182571	3.582903175	0.0003
MDRG_1713	Lymphoma & Non-Acute Leukemia	1	0.81335591	0.25859209	3.145324008	0.0017
MDRG_1715	Chemotherapy W/O Acute Leukemia As Secondary Diagnosis	1	-1.056155643	0.570902065	-1.849976917	0.0643
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	1.483833715	0.092405841	16.05779138	<.0001
MDRG_1803	Postoperative & Post-Traumatic Infections	1	-0.02445262	0.344809447	-0.070916327	0.9435
MDRG_1805	Viral Illness	1	-1.482170447	1.027928018	-1.441901009	0.1493
MDRG_1807	Septicemia Or Severe Sepsis W MV >96 Hours	1	2.624742343	0.098586156	26.62384318	<.0001
MDRG_1808	Septicemia Or Severe Sepsis W/O MV >96 Hours	1	0.296366718	0.071064714	4.170377985	<.0001
MDRG_2020	Alcohol/Drug Abuse Or Dependence W/O Rehabilitation Therapy	1	-1.678379881	0.351830766	-4.770418173	<.0001
MDRG_2108	Complications Of Treatment	1	-0.967040504	0.52848582	-1.829832452	0.0673
MDRG_2303	Signs & Symptoms	1	-2.452653507	0.737605813	-3.325154795	0.0009
MDRG_2304	Aftercare	1	-2.276649676	1.046722927	-2.175026091	0.0296

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_2502	HIV W Major Related Condition	1	0.483553844	0.376654707	1.283812032	0.1992
MDRG_7702	Liver Transplant	1	3.125613	0.284933585	10.96961948	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.1153053	0.053866659	2.140569	0.0323

c-statistic=0.847

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 5. Risk Adjustment Coefficients for PSI 07 Central Venous Catheter-Related Blood Stream Infection Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-9.243648871	0.13261123	-69.70487224	<.0001
Age	Male, Age < 30	1	0.00788312	0.155217853	0.05078746	0.9595
Age	Male, Age < 35	1	-0.115300434	0.168520641	-0.68419176	0.4939
Age	Male, Age < 40	1	0.156923309	0.15945852	0.984101124	0.3251
Age	Male, Age < 45	1	0.485009464	0.165272019	2.934613295	0.0033
Age	Male, Age < 50	1	-0.290074443	0.158746544	-1.827280364	0.0677
Age	Male, Age < 55	1	0.161333676	0.131910209	1.223056782	0.2213
Age	Male, Age < 60	1	-0.042539377	0.126579318	-0.33606894	0.7368
Age	Male, Age < 65	1	0.346004263	0.139924736	2.472788387	0.0134
Age	Male, Age >= 65	1	0.15905207	0.150649178	1.055777881	0.2911
Age	Male, Age >= 70	1	0.044818485	0.139510309	0.321255725	0.748
Age	Male, Age >= 75	1	-0.335207801	0.162654682	-2.060855529	0.0393
Age	Male, Age >= 80	1	-0.079222489	0.193460906	-0.40950128	0.6822
Age	Male, Age >= 85	1	-0.461262997	0.255279707	-1.806892537	0.0708
Age	Male, Age >= 90	1	0.018069307	0.349641714	0.051679493	0.9588
Age	Female, Age < 30	1	-0.19902388	0.156804775	-1.269246298	0.2044
Age	Female, Age < 35	1	0.217087829	0.171286911	1.267392988	0.205
Age	Female, Age < 40	1	-0.004838257	0.179823675	-0.02690556	0.9785
Age	Female, Age < 45	1	0.296262793	0.180818834	1.638450964	0.1013
Age	Female, Age < 50	1	-0.079917521	0.172253288	-0.463953527	0.6427
Age	Female, Age < 55	1	-0.067639946	0.152706458	-0.442940964	0.6578
Age	Female, Age < 60	1	0.326136272	0.144709755	2.253726929	0.0242
Age	Female, Age < 65	1	-0.000177519	0.156802217	-0.00113212	0.9991
Age	Female, Age >= 70	1	-0.085336679	0.158579728	-0.538131068	0.5905
Age	Female, Age >= 75	1	-0.285238524	0.180697785	-1.578539127	0.1144
Age	Female, Age >= 80	1	-0.000703831	0.18880873	-0.003727745	0.997

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 85	1	-0.778579708	0.261648	-2.975676132	0.0029
Age	Female, Age >= 90	1	-0.84504198	0.431844278	-1.956821064	0.0504
DM	Diabetes w/o chronic complications	1	-0.245623294	0.07293992	-3.367474151	0.0008
CHF	Congestive heart failure	1	0.393855163	0.078255371	5.032947385	<.0001
COAG	Coagulopathy	1	0.410534815	0.07741553	5.303003349	<.0001
DRUG	Drug abuse	1	0.903970855	0.069532718	13.00065467	<.0001
PARA	Paralysis	1	0.863685322	0.072722033	11.87652889	<.0001
HTN C	Hypertension	1	-0.21163259	0.05394369	-3.923213085	<.0001
LIVER	Liver disease	1	0.442405078	0.084556277	5.232078482	<.0001
LYTES	Fluid and electrolyte disorders	1	0.410541772	0.056061394	7.323074628	<.0001
NEURO	Neurological disease	1	0.281835113	0.073003408	3.860574727	0.0001
OBESE	Obesity	1	0.335320007	0.054486568	6.154177472	<.0001
PSYCH	Psychoses	1	0.127945551	0.093476919	1.368739496	0.1711
ULCER	Peptic ulcer Disease x bleeding	1	0.519598516	0.146583772	3.544720605	0.0004
VALVE	Valvular disease	1	-0.051698811	0.111366708	-0.464221419	0.6425
ALCOHOL	Alcohol abuse	1	-0.31790371	0.094412326	-3.367184395	0.0008
ANEMDEF	Deficiency Anemias	1	0.416007468	0.056065525	7.420022726	<.0001
DEPRESS	Depression	1	0.039774127	0.064290883	0.618658898	0.5361
HYPOTHY	Hypothyroidism	1	-0.125034474	0.079497667	-1.572806835	0.1158
CHRNLUNG	Chronic pulmonary disease	1	0.058783654	0.056932556	1.03251386	0.3018
PERIVASC	Peripheral vascular disease	1	0.047370794	0.08602402	0.550669387	0.5819
PULMCIRC	Pulmonary circulation disease	1	0.841130291	0.098049839	8.57859945	<.0001
RENLFAIL	Renal failure	1	0.319123323	0.067274501	4.743600034	<.0001
WGHTLOSS	Weight loss	1	1.136090758	0.07237987	15.69622551	<.0001
MDRG_101	Intracranial Vascular Procedures W PDX Hemorrhage	1	1.975614633	0.271811651	7.268322115	<.0001
MDRG_102	Cranio W Major Dev Impl/Acute Complex CNS PDX	1	0.685190243	0.25324631	2.705627746	0.0068
MDRG_103	Craniotomy & Endovascular Intracranial	1	0.043841462	0.306386804	0.143091875	0.8862

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
	Procedures					
MDRG_104	Spinal Procedures	1	0.126421009	0.480131596	0.263304916	0.7923
MDRG_108	Periph/Cranial Nerve & Other Nerv Syst Proc	1	0.256802215	0.422510003	0.607801504	0.5433
MDRG_109	Spinal Disorders & Injuries	1	0.362486614	0.724007602	0.500666862	0.6166
MDRG_114	Intracranial Hemorrhage Or Cerebral Infarction	1	-0.799148619	0.229247905	-3.485958221	0.0005
MDRG_117	Nonspecific Cerebrovascular Disorders	1	-2.160841956	1.018187203	-2.122244268	0.0338
MDRG_118	Cranial & Peripheral Nerve Disorders	1	-0.686326285	0.422053721	-1.626158594	0.1039
MDRG_122	Traumatic Stupor & Coma, Coma >1 Hr	1	-0.380525159	0.628506863	-0.605443124	0.5449
MDRG_123	Traumatic Stupor & Coma, Coma <1 Hr	1	-1.106480864	0.635220939	-1.741883486	0.0815
MDRG_125	Other Disorders Of Nervous System	1	-0.923225506	0.382979036	-2.41064241	0.0159
MDRG_128	Seizures	1	-1.481044562	0.383078842	-3.866161215	0.0001
MDRG_129	Headaches	1	-1.534336107	0.734985644	-2.087572892	0.0368
MDRG_401	Major Chest Procedures	1	0.437958721	0.289514039	1.512737424	0.1303
MDRG_402	Other Resp System O.R. Procedures	1	-0.077344143	0.341413558	-0.226540924	0.8208
MDRG_403	Pulmonary Embolism	1	-2.39220712	0.722998562	-3.308730121	0.0009
MDRG_404	Respiratory Infections & Inflammations	1	-1.353455222	0.368164333	-3.676225806	0.0002
MDRG_408	Pulmonary Edema & Respiratory Failure	1	-1.762758064	0.331446272	-5.318382534	<.0001
MDRG_409	Chronic Obstructive Pulmonary Disease	1	-2.400618274	0.407799441	-5.886762052	<.0001
MDRG_410	Simple Pneumonia & Pleurisy	1	-3.60250359	0.693149863	-5.197293948	<.0001
MDRG_416	Respiratory System Diagnosis W Ventilator Support	1	0.559818903	0.151921738	3.684916405	0.0002
MDRG_503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	0.789237779	0.173768747	4.54188566	<.0001
MDRG_507	Coronary Bypass W/O PTCA	1	0.309768682	0.200128054	1.547852369	0.1217
MDRG_510	Permanent Cardiac Pacemaker Implant And Procedures	1	0.071043051	0.324296644	0.219068104	0.8266
MDRG_514	Other Vascular Procedures	1	-0.195662038	0.308811602	-0.633596785	0.5263
MDRG_520	Acute Myocardial Infarction	1	-0.732083577	0.256539343	-2.853689295	0.0043
MDRG_522	Circulatory Disorders Except Ami, W Card Cath	1	0.373266831	0.157833875	2.364934848	0.018
MDRG_524	Heart Failure & Shock	1	-1.12123	0.187094733	-5.992846429	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_527	Peripheral Vascular Disorders	1	-0.816848394	0.346105975	-2.360110641	0.0183
MDRG_534	Chest Pain	1	-2.4949419	1.032501133	-2.416405968	0.0157
MDRG_535	Other Circulatory System Diagnoses	1	-0.443261012	0.335795174	-1.320033897	0.1868
MDRG_540	Endovascular Cardiac Valve Replacement	1	-1.02361834	1.203737942	-0.850366434	0.3951
MDRG_542	Other Major Cardiovascular Procedures	1	0.816475318	0.260900299	3.129453363	0.0018
MDRG_601	Stomach, Esophageal & Duodenal Proc	1	1.260885729	0.152939339	8.244351923	<.0001
MDRG_603	Rectal Resection	1	0.96893059	1.052819216	0.920320009	0.3574
MDRG_604	Peritoneal Adhesiolysis	1	0.840050897	0.24915157	3.371646004	0.0007
MDRG_610	Hernia Procedures Except Inguinal & Femoral	1	-0.002308496	0.385304053	-0.005991362	0.9952
MDRG_613	Major Gastrointestinal Disorders & Peritoneal Infections	1	-0.515316301	0.290925042	-1.771302658	0.0765
MDRG_615	G.I. Hemorrhage	1	-0.943656746	0.233026759	-4.049563884	<.0001
MDRG_618	Inflammatory Bowel Disease	1	-0.868844527	0.384312557	-2.260775797	0.0238
MDRG_620	Esophagitis, Gastroent & Misc Digest Disorders	1	-1.601269349	0.25174332	-6.360722307	<.0001
MDRG_621	Other Digestive System Diagnoses	1	-0.07703252	0.218481304	-0.352581749	0.7244
MDRG_705	Laparoscopic Cholecystectomy W/O C.D.E.	1	-1.882834575	0.448734466	-4.195876888	<.0001
MDRG_707	Other Hepatobiliary Or Pancreas O.R. Procedures	1	1.109807633	0.727590964	1.525318053	0.1272
MDRG_710	Disorders Of Pancreas Except Malignancy	1	-0.412794739	0.20942216	-1.971112991	0.0487
MDRG_711	Disorders Of Liver Except Malig,cirr,alc Hepa	1	-0.919122683	0.372139624	-2.469832893	0.0135
MDRG_712	Disorders Of The Biliary Tract	1	-1.727138195	0.739309455	-2.336150556	0.0195
MDRG_802	Spinal Fus Exc Cerv W Spinal Curv/Malig/Infec Or Ext Fus	1	0.506656883	0.54001179	0.938233002	0.3481
MDRG_803	Spinal Fusion Except Cervical	1	-2.159084571	0.645861584	-3.342952457	0.0008
MDRG_805	Wnd Debrid & Skn Grft Exc Hand, For Musculo-Conn Tiss Dis	1	-0.117673114	0.350070299	-0.336141381	0.7368
MDRG_806	Revision Of Hip Or Knee Replacement	1	-1.447601223	0.748996305	-1.932721448	0.0533
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	-2.669297665	0.410079035	-6.509227336	<.0001
MDRG_808	Cervical Spinal Fusion	1	-0.727610244	0.490747481	-1.482657115	0.1382
MDRG_811	Hip & Femur Procedures Except Major Joint	1	-0.953247383	0.344144697	-2.769902867	0.0056

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_816	Lower Extrem & Humer Proc Except Hip,foot,femur	1	-1.594108342	0.55303208	-2.882488012	0.0039
MDRG_826	Other Musculoskelet Sys & Conn Tiss O.R. Proc	1	-2.228660638	1.160240776	-1.920860466	0.0547
MDRG_832	Connective Tissue Disorders	1	0.236513794	0.385617374	0.613338014	0.5397
MDRG_833	Septic Arthritis	1	1.057506036	0.503219927	2.101478852	0.0356
MDRG_834	Medical Back Problems	1	-1.221040249	0.4655741	-2.622655017	0.0087
MDRG_838	Aftercare, Musculoskeletal System & Connective Tissue	1	-0.554631502	0.326318667	-1.699662199	0.0892
MDRG_901	Skin Debridement Or Skin Graft For Skin Ulcer Or Cellulitis	1	-1.27553139	0.591598322	-2.156076754	0.0311
MDRG_903	Other Skin, Subcut Tiss & Breast Proc	1	-1.284389543	0.520802287	-2.466174931	0.0137
MDRG_910	Cellulitis	1	-1.745530381	0.290442543	-6.009899106	<.0001
MDRG_1003	O.R. Procedures For Obesity	1	-1.985301747	0.808524992	-2.455461201	0.0141
MDRG_1004	Skin Grafts & Wound Debrid For Endoc, Nutrit & Metab Dis	1	-1.426835347	1.027807044	-1.388232699	0.1651
MDRG_1007	Diabetes	1	-1.030789042	0.216966583	-4.750911526	<.0001
MDRG_1008	Misc Disorders Of Nutrition,metabolism,fluids/Electrolytes	1	-0.557467029	0.295363653	-1.887392113	0.0591
MDRG_1102	Major Bladder Procedures	1	0.141844602	1.051433266	0.134905948	0.8927
MDRG_1109	Other Kidney & Urinary Tract Procedures	1	0.521513623	0.454826044	1.146622165	0.2515
MDRG_1110	Renal Failure	1	-0.979203336	0.181390551	-5.398315033	<.0001
MDRG_1113	Kidney & Urinary Tract Infections	1	-2.342780984	0.455257193	-5.146060339	<.0001
MDRG_1304	Uterine & Adnexa Proc For Non-Malignancy	1	-2.00305568	0.617093937	-3.245949377	0.0012
MDRG_1401	Cesarean Section	1	-3.50911302	0.415598476	-8.443517531	<.0001
MDRG_1402	Vaginal Delivery W O.R. Proc	1	-2.78760583	1.117262461	-2.495032211	0.0126
MDRG_1405	Vaginal Delivery (W/O Or Proc)	1	-6.104086011	1.311222381	-4.655263743	<.0001
MDRG_1604	Red Blood Cell Disorders	1	0.51045417	0.163330061	3.125292231	0.0018
MDRG_1606	Reticuloendothelial & Immunity Disorders	1	-0.144639861	0.728093435	-0.198655632	0.8425
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	0.596557492	0.10348309	5.764782358	<.0001
MDRG_1803	Postoperative & Post-Traumatic Infections	1	-0.603060768	0.463566941	-1.300914097	0.1933

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_1807	Septicemia Or Severe Sepsis W MV >96 Hours	1	1.256904522	0.126107993	9.966890227	<.0001
MDRG_1808	Septicemia Or Severe Sepsis W/O MV >96 Hours	1	-0.912257676	0.109910842	-8.299978929	<.0001
MDRG_1915	Psychoses	1	-4.342701827	0.605995144	-7.166232061	<.0001
MDRG_2018	Alcohol/Drug Abuse Or Dependence, Left Ama	1	-1.696704509	0.972850659	-1.744054438	0.0811
MDRG_2020	Alcohol/Drug Abuse Or Dependence W/O Rehabilitation Therapy	1	-1.395332581	0.249886619	-5.583862741	<.0001
MDRG_2104	Other O.R. Procedures For Injuries	1	0.338028051	0.279167124	1.210844768	0.226
MDRG_2105	Traumatic Injury	1	-0.287785799	1.040325169	-0.276630622	0.7821
MDRG_2107	Poisoning & Toxic Effects Of Drugs	1	-1.451582287	0.279138641	-5.200219798	<.0001
MDRG_2303	Signs & Symptoms	1	-2.630648169	1.066417347	-2.466809244	0.0136
MDRG_2304	Aftercare	1	-1.406230684	0.599777806	-2.344586061	0.019
MDRG_2407	Limb Reattachment, Hip & Femur Proc For Multiple Significant Trauma	1	1.083686441	0.347506155	3.118466897	0.0018
MDRG_2408	Other O.R. Procedures For Multiple Significant Trauma	1	0.913262789	0.27746176	3.291490652	0.001
MDRG_7701	Heart Transplant Or Implant Of Heart Assist System	1	3.084789074	0.233159277	13.23039391	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.568483007	0.071254335	7.978223464	<.0001

c-statistic=0.866

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 6. Risk Adjustment Coefficients for PSI 08 In-Hospital Fall with Hip Fracture Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-8.964772764	0.122204293	-73.35890236	<.0001
Age	Male, Age < 30	1	-0.287366883	0.716954136	-0.400816271	0.6886
Age	Male, Age < 35	1	-0.546002578	0.668654549	-0.816569002	0.4142
Age	Male, Age < 40	1	-0.124435693	0.517024418	-0.240676626	0.8098
Age	Male, Age < 45	1	-0.251539694	0.427271531	-0.588711572	0.5561
Age	Male, Age < 50	1	-0.063979328	0.328841172	-0.194559969	0.8457
Age	Male, Age < 55	1	-0.201989009	0.250299088	-0.80699059	0.4197
Age	Male, Age < 60	1	-0.198064473	0.207948649	-0.952468188	0.3409
Age	Male, Age < 65	1	-0.746552589	0.163219687	-4.57391264	<.0001
Age	Male, Age >= 65	1	-0.653498521	0.154403514	-4.232407039	<.0001
Age	Male, Age >= 70	1	0.240130523	0.174320855	1.377520339	0.1684
Age	Male, Age >= 75	1	0.570270459	0.158716918	3.593003604	0.0003
Age	Male, Age >= 80	1	0.312330161	0.142842782	2.186530933	0.0288
Age	Male, Age >= 85	1	0.128774633	0.155610645	0.827543852	0.4079
Age	Male, Age >= 90	1	0.231628398	0.191931006	1.206831576	0.2275
Age	Female, Age < 30	1	-0.726573177	0.628192407	-1.156609295	0.2474
Age	Female, Age < 35	1	-0.157933139	0.555978519	-0.284063383	0.7764
Age	Female, Age < 40	1	0.712390236	0.587990432	1.211567736	0.2257
Age	Female, Age < 45	1	-0.807641891	0.540443185	-1.494406653	0.1351
Age	Female, Age < 50	1	-0.727770511	0.323535725	-2.249428596	0.0245
Age	Female, Age < 55	1	-0.137889324	0.213922734	-0.644575362	0.5192
Age	Female, Age < 60	1	-0.466307038	0.184591006	-2.526163376	0.0115
Age	Female, Age < 65	1	-0.193832237	0.14394069	-1.346611838	0.1781
Age	Female, Age >= 70	1	0.244959934	0.12766454	1.91877818	0.055
Age	Female, Age >= 75	1	0.150218591	0.122921982	1.222064508	0.2217

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 80	1	0.477313887	0.114319948	4.175245821	<.0001
Age	Female, Age >= 85	1	0.092518622	0.114008254	0.811508097	0.4171
Age	Female, Age >= 90	1	0.2651728	0.124781422	2.125098393	0.0336
DM	Diabetes w/o chronic complications	1	-0.039855292	0.073351633	-0.54334567	0.5869
CHF	Congestive heart failure	1	0.263859915	0.075310136	3.503644109	0.0005
ARTH	Rheumatoid arthritis/collagen vas	1	0.105895878	0.118104687	0.896627223	0.3699
COAG	Coagulopathy	1	0.003551831	0.113421432	0.031315345	0.975
DMCX	Diabetes w/ chronic complications	1	-0.086385126	0.086223501	-1.001874494	0.3164
DRUG	Drug abuse	1	0.129852466	0.17597146	0.737917759	0.4606
PARA	Paralysis	1	0.136141633	0.130247961	1.045249629	0.2959
HTN C	Hypertension	1	-0.227739989	0.062173582	-3.662970388	0.0002
LIVER	Liver disease	1	0.352800405	0.120700186	2.922948318	0.0035
LYTES	Fluid and electrolyte disorders	1	0.29551564	0.062948207	4.694583907	<.0001
NEURO	Neurological disease	1	0.52248073	0.07678715	6.804272989	<.0001
OBESE	Obesity	1	-0.464943884	0.084937769	-5.473935684	<.0001
PSYCH	Psychoses	1	0.371496448	0.132703592	2.799445307	0.0051
ULCER	Peptic ulcer Disease x bleeding	1	-0.453592735	0.303485977	-1.494608545	0.135
VALVE	Valvular disease	1	0.327867724	0.086734405	3.780134583	0.0002
ALCOHOL	Alcohol abuse	1	0.509407956	0.129054234	3.947239394	<.0001
ANEMDEF	Deficiency Anemias	1	0.192866523	0.065371165	2.950330218	0.0032
BLDLOSS	Chronic blood loss anemia	1	0.535160539	0.183065037	2.923335602	0.0035
DEPRESS	Depression	1	0.091288192	0.072131806	1.265574737	0.2057
HYPOTHY	Hypothyroidism	1	-0.083074305	0.065751397	-1.263460699	0.2064
CHRNLUNG	Chronic pulmonary disease	1	0.296006928	0.05680537	5.210896973	<.0001
PERIVASC	Peripheral vascular disease	1	-0.059004214	0.088951175	-0.663332593	0.5071
PULMCIRC	Pulmonary circulation disease	1	0.196690249	0.117745663	1.670467039	0.0948
RENLFAIL	Renal failure	1	0.151196693	0.06898742	2.191656014	0.0284
WGHTLOSS	Weight loss	1	0.687789784	0.078304634	8.783513206	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_111	Degenerative Nervous System Disorders	1	0.582626321	0.140984714	4.132549581	<.0001
MDRG_116	Transient Ischemia	1	-2.86207568	0.942197211	-3.037660956	0.0024
MDRG_117	Nonspecific Cerebrovascular Disorders	1	-2.069112766	0.685194789	-3.019743874	0.0025
MDRG_125	Other Disorders Of Nervous System	1	-0.957643559	0.369337953	-2.592865292	0.0095
MDRG_403	Pulmonary Embolism	1	-2.348597559	0.680453388	-3.451518649	0.0006
MDRG_404	Respiratory Infections & Inflammations	1	-1.956384908	0.32873386	-5.951272882	<.0001
MDRG_409	Chronic Obstructive Pulmonary Disease	1	-2.558360429	0.368745932	-6.938003134	<.0001
MDRG_410	Simple Pneumonia & Pleurisy	1	-2.378340445	0.2761441	-8.612678832	<.0001
MDRG_413	Bronchitis & Asthma	1	-2.099706839	0.667346421	-3.14635214	0.0017
MDRG_503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	-1.793760558	0.632864971	-2.83434957	0.0046
MDRG_507	Coronary Bypass W/O PTCA	1	-1.168570252	0.475327113	-2.458454864	0.014
MDRG_511	Perc Cardiovasc Proc W Drug-Eluting Stent	1	-1.74049738	0.384703926	-4.524251666	<.0001
MDRG_514	Other Vascular Procedures	1	-0.225751671	0.25040385	-0.901550319	0.3673
MDRG_520	Acute Myocardial Infarction	1	-1.935752528	0.358873278	-5.393972326	<.0001
MDRG_522	Circulatory Disorders Except Ami, W Card Cath	1	-3.288131575	0.873377413	-3.76484613	0.0002
MDRG_524	Heart Failure & Shock	1	-1.868353634	0.183075267	-10.20538526	<.0001
MDRG_527	Peripheral Vascular Disorders	1	-2.49971042	0.667413055	-3.745372379	0.0002
MDRG_529	Hypertension	1	-2.60557321	0.941122446	-2.768580457	0.0056
MDRG_531	Cardiac Arrhythmia & Conduction Disorders	1	-2.215200283	0.321060621	-6.89963247	<.0001
MDRG_533	Syncope & Collapse	1	-1.35822485	0.56128695	-2.419840422	0.0155
MDRG_534	Chest Pain	1	-2.256970604	0.65412659	-3.450357527	0.0006
MDRG_535	Other Circulatory System Diagnoses	1	-2.036438712	0.548781109	-3.710839676	0.0002
MDRG_601	Stomach, Esophageal & Duodenal Proc	1	-0.676182562	0.343253828	-1.969919944	0.0488
MDRG_602	Major Small & Large Bowel Procedures	1	-1.013242648	0.273568422	-3.703799732	0.0002
MDRG_613	Major Gastrointestinal Disorders & Peritoneal Infections	1	-2.207829763	0.559161347	-3.948466354	<.0001
MDRG_615	G.I. Hemorrhage	1	-2.491520001	0.3422557	-7.279703457	<.0001
MDRG_619	G.I. Obstruction	1	-2.536183222	0.551280584	-4.600530652	<.0001
MDRG_620	Esophagitis, Gastroent & Misc Digest Disorders	1	-3.027611121	0.466673693	-6.487640435	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_621	Other Digestive System Diagnoses	1	-2.720205701	0.656579058	-4.142997966	<.0001
MDRG_705	Laparoscopic Cholecystectomy W/O C.D.E.	1	-1.873113276	0.551661278	-3.395404664	0.0007
MDRG_708	Cirrhosis & Alcoholic Hepatitis	1	-1.716256925	0.680267236	-2.522915753	0.0116
MDRG_710	Disorders Of Pancreas Except Malignancy	1	-2.497437907	0.675075567	-3.699493851	0.0002
MDRG_711	Disorders Of Liver Except Malig,cirr,alc Hepa	1	-2.563466283	0.95142904	-2.694332606	0.0071
MDRG_712	Disorders Of The Biliary Tract	1	-1.982741021	0.672569543	-2.948008933	0.0032
MDRG_803	Spinal Fusion Except Cervical	1	-2.801260028	0.889263805	-3.150088886	0.0016
MDRG_806	Revision Of Hip Or Knee Replacement	1	2.093618657	0.116504708	17.97024936	<.0001
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	0.787204811	0.082178727	9.579179878	<.0001
MDRG_834	Medical Back Problems	1	-1.533797877	0.552265418	-2.777283944	0.0055
MDRG_838	Aftercare, Musculoskeletal System & Connective Tissue	1	0.637265911	0.158484766	4.020991595	<.0001
MDRG_910	Cellulitis	1	-2.295558129	0.429219004	-5.348221084	<.0001
MDRG_1006	Other Endocrine, Nutrit & Metab O.R. Proc	1	2.596621324	0.216824821	11.97566454	<.0001
MDRG_1007	Diabetes	1	-2.370112018	0.550595057	-4.304637299	<.0001
MDRG_1008	Misc Disorders Of Nutrition,metabolism,fluids/Electrolytes	1	-1.41819424	0.261927609	-5.414451127	<.0001
MDRG_1010	Endocrine Disorders	1	-1.12966582	0.48904852	-2.309925852	0.0209
MDRG_1103	Kidney & Ureter Procedures For Neoplasm	1	-0.741200918	0.676999346	-1.094832547	0.2736
MDRG_1109	Other Kidney & Urinary Tract Procedures	1	-0.003389801	0.493208934	-0.006872952	0.9945
MDRG_1110	Renal Failure	1	-2.916411883	0.390496586	-7.468469604	<.0001
MDRG_1113	Kidney & Urinary Tract Infections	1	-2.719188655	0.343555464	-7.914846201	<.0001
MDRG_1118	Other Kidney & Urinary Tract Diagnoses	1	-2.095375524	0.488983088	-4.285169722	<.0001
MDRG_1604	Red Blood Cell Disorders	1	-2.342632691	0.552154396	-4.242713104	<.0001
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	1.002115981	0.114239826	8.772037019	<.0001
MDRG_1807	Septicemia Or Severe Sepsis W MV >96 Hours	1	-1.487043705	0.602658847	-2.46747179	0.0136
MDRG_1808	Septicemia Or Severe Sepsis W/O MV >96 Hours	1	-2.378306525	0.183192718	-12.98253855	<.0001
MDRG_1911	Depressive Neuroses	1	-0.201001587	0.453652519	-0.443073891	0.6577

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_1915	Psychoses	1	-0.149926597	0.407504999	-0.367913516	0.7129
MDRG_2303	Signs & Symptoms	1	-1.592569701	0.434696767	-3.663633645	0.0002
TRNSFER	Transfer from Another Acute Care Hospital	1	0.314272722	0.092477032	3.398386769	0.0007

c-statistic=0.861

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 7. Risk Adjustment Coefficients for PSI 09 Perioperative Hemorrhage or Hematoma Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-5.990558216	0.044987044	-133.1618542	<.0001
Age	Male, Age < 30	1	-0.002027915	0.096879356	-0.020932377	0.9833
Age	Male, Age < 35	1	-0.002767042	0.103431143	-0.026752507	0.9787
Age	Male, Age < 40	1	-0.067623468	0.088670373	-0.762638811	0.4457
Age	Male, Age < 45	1	-0.067579574	0.074836251	-0.903032599	0.3665
Age	Male, Age < 50	1	0.034411743	0.061848844	0.556384574	0.5779
Age	Male, Age < 55	1	0.023159733	0.050623438	0.45749033	0.6473
Age	Male, Age < 60	1	-0.071278646	0.046812921	-1.522627613	0.1279
Age	Male, Age < 65	1	0.099493405	0.045945011	2.165488764	0.0304
Age	Male, Age >= 65	1	0.077523657	0.046220333	1.67726305	0.0935
Age	Male, Age >= 70	1	-0.046581577	0.045210956	-1.030316117	0.3029
Age	Male, Age >= 75	1	0.056660329	0.050980652	1.111408468	0.2664
Age	Male, Age >= 80	1	-0.05457757	0.062367405	-0.875097662	0.3815
Age	Male, Age >= 85	1	-0.007916644	0.078968417	-0.100250766	0.9201
Age	Male, Age >= 90	1	-0.277922865	0.140598714	-1.976709864	0.0481
Age	Female, Age < 30	1	-0.156585731	0.098178482	-1.594908864	0.1107
Age	Female, Age < 35	1	0.077548731	0.094781421	0.818184934	0.4133
Age	Female, Age < 40	1	-0.121732593	0.075693267	-1.608235417	0.1078
Age	Female, Age < 45	1	-0.06306124	0.066998706	-0.941230714	0.3466
Age	Female, Age < 50	1	-0.013870449	0.061112618	-0.226965381	0.8205
Age	Female, Age < 55	1	0.0098853	0.056699159	0.174346498	0.8616
Age	Female, Age < 60	1	-0.030595829	0.05422264	-0.564262982	0.5726
Age	Female, Age < 65	1	-0.060858859	0.051464659	-1.18253691	0.237
Age	Female, Age >= 70	1	-0.008318928	0.052335021	-0.158955278	0.8737
Age	Female, Age >= 75	1	0.025874237	0.054677743	0.473213323	0.6361
Age	Female, Age >= 80	1	0.005738229	0.062522556	0.091778545	0.9269

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 85	1	-0.25175519	0.085927271	-2.929863697	0.0034
Age	Female, Age >= 90	1	-0.308659532	0.133328711	-2.31502674	0.0206
DM	Diabetes w/o chronic complications	1	-0.170673907	0.026310292	-6.486963653	<.0001
CHF	Congestive heart failure	1	0.25667479	0.039000852	6.581261169	<.0001
COAG	Coagulopathy	1	0.393648053	0.097988564	4.017285642	<.0001
DMCX	Diabetes w/ chronic complications	1	-0.181448381	0.029979416	-6.052432115	<.0001
METS	Metastatic cancer	1	0.132675094	0.046700285	2.840991104	0.0045
PARA	Paralysis	1	0.240099299	0.044861308	5.35203521	<.0001
HTN C	Hypertension	1	0.053207999	0.020841582	2.552973188	0.0107
LIVER	Liver disease	1	0.200196402	0.046427623	4.312010619	<.0001
LYMPH	Lymphoma	1	-0.370286987	0.14579192	-2.539832022	0.0111
LYTES	Fluid and electrolyte disorders	1	-0.047334494	0.02881182	-1.642884563	0.1004
NEURO	Neurological disease	1	0.016391418	0.038046064	0.430830853	0.6666
OBESE	Obesity	1	-0.02307911	0.023572021	-0.979089158	0.3275
PSYCH	Psychoses	1	-0.030434592	0.058386115	-0.521264219	0.6022
TUMOR	Solid tumor w/out metastasis	1	0.111398553	0.055338087	2.013053921	0.0441
ULCER	Peptic ulcer Disease x bleeding	1	0.32398698	0.082879717	3.909122674	<.0001
VALVE	Valvular disease	1	0.381100374	0.044925264	8.482985755	<.0001
ANEMDEF	Deficiency Anemias	1	-0.258005976	0.029865686	-8.638876677	<.0001
BLDLOSS	Chronic blood loss anemia	1	-0.212748294	0.092705974	-2.294871462	0.0217
DEPRESS	Depression	1	0.038239836	0.027655641	1.382713771	0.1668
HYPOTHY	Hypothyroidism	1	0.002767061	0.027279813	0.101432539	0.9192
CHRNLUNG	Chronic pulmonary disease	1	0.04941221	0.022471373	2.198895931	0.0279
PERIVASC	Peripheral vascular disease	1	0.207463927	0.026874155	7.719830665	<.0001
PULMCIRC	Pulmonary circulation disease	1	0.322404835	0.058524923	5.5088468	<.0001
RENLF FAIL	Renal failure	1	0.155318076	0.027742917	5.598476871	<.0001
WGHTLOSS	Weight loss	1	0.424338141	0.038443026	11.03810447	<.0001
MDRG_103	Craniotomy & Endovascular Intracranial Procedures	1	0.46212739	0.065276313	7.079557145	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_105	Ventricular Shunt Procedures	1	-3.762233771	1.228680034	-3.062012621	0.0022
MDRG_107	Extracranial Procedures	1	0.96224147	0.05162119	18.64043553	<.0001
MDRG_301	Cranial/Facial Procedures	1	0.552263715	0.114468331	4.824598284	<.0001
MDRG_302	Other Ear, Nose, Mouth & Throat O.R. Procedures	1	1.065816318	0.104849871	10.16516573	<.0001
MDRG_401	Major Chest Procedures	1	0.077390803	0.070696933	1.094684019	0.2737
MDRG_402	Other Resp System O.R. Procedures	1	-1.529885894	0.171747458	-8.907764433	<.0001
MDRG_503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	1.527600261	0.051449028	29.69152821	<.0001
MDRG_504	Cardiac Defibrillator Implant	1	-0.042731806	0.109907919	-0.388796429	0.6974
MDRG_505	Other Cardiothoracic Procedures	1	1.329113974	0.101653646	13.07492677	<.0001
MDRG_507	Coronary Bypass W/O PTCA	1	0.910327449	0.049505596	18.38837477	<.0001
MDRG_510	Permanent Cardiac Pacemaker Implant And Procedures	1	-0.08534057	0.135490549	-0.629863636	0.5288
MDRG_511	Perc Cardiovasc Proc W Drug-Eluting Stent	1	-1.350615542	0.076433339	-17.67050304	<.0001
MDRG_514	Other Vascular Procedures	1	0.762675225	0.04474275	17.04578344	<.0001
MDRG_540	Endovascular Cardiac Valve Replacement	1	0.390240778	0.106859962	3.65188953	0.0003
MDRG_541	Aortic And Heart Assist Procedures Except Pulsation Balloon	1	0.169011123	0.093087659	1.815612565	0.0694
MDRG_542	Other Major Cardiovascular Procedures	1	0.512871782	0.066137936	7.754578001	<.0001
MDRG_543	Percutaneous Intracardiac Procedures	1	-0.099137456	0.117465296	-0.843972301	0.3987
MDRG_601	Stomach, Esophageal & Duodenal Proc	1	0.093472733	0.068129575	1.371984689	0.1701
MDRG_602	Major Small & Large Bowel Procedures	1	-0.094165858	0.043251803	-2.177154507	0.0295
MDRG_604	Peritoneal Adhesiolysis	1	-0.38764786	0.099984537	-3.877078125	0.0001
MDRG_605	Appendectomy W Complicated Principal Diag	1	-0.742986913	0.151733788	-4.896647758	<.0001
MDRG_606	Appendectomy W/O Complicated Principal Diag	1	-0.738744114	0.12891814	-5.730334905	<.0001
MDRG_607	Minor Small & Large Bowel Procedures	1	-0.853951622	0.208979292	-4.086297802	<.0001
MDRG_608	Anal & Stomal Procedures	1	-0.55944135	0.182388074	-3.067313227	0.0022
MDRG_610	Hernia Procedures Except Inguinal & Femoral	1	0.141565718	0.075666711	1.870911489	0.0614
MDRG_701	Pancreas, Liver & Shunt Procedures	1	0.490050732	0.093543399	5.238752677	<.0001
MDRG_705	Laparoscopic Cholecystectomy W/O C.D.E.	1	-0.897020806	0.067670887	-13.25563831	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_803	Spinal Fusion Except Cervical	1	-0.73713618	0.069079745	-10.67080053	<.0001
MDRG_804	Bilateral Or Multiple Major Joint Procs Of Lower Extremity	1	-2.623313696	0.457703828	-5.731465494	<.0001
MDRG_806	Revision Of Hip Or Knee Replacement	1	-0.984658053	0.120953665	-8.140787274	<.0001
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	-2.83257485	0.088811465	-31.89424745	<.0001
MDRG_808	Cervical Spinal Fusion	1	-0.217118696	0.062462228	-3.475999874	0.0005
MDRG_809	Amputation For Musculoskeletal Sys & Conn Tissue Dis	1	-0.550655242	0.186866601	-2.946782565	0.0032
MDRG_810	Biopsies Of Musculoskeletal System & Connective Tissue	1	-2.108361824	0.34530473	-6.10580059	<.0001
MDRG_811	Hip & Femur Procedures Except Major Joint	1	-2.138895403	0.127118225	-16.82603268	<.0001
MDRG_812	Major Joint/Limb Reattachment Procedure Of Upper Extremities	1	-2.572985198	0.233289777	-11.02913825	<.0001
MDRG_815	Back & Neck Proc Exc Spinal Fusion Or Disc Device/Neurostim	1	0.0736588	0.090231238	0.816333694	0.4143
MDRG_816	Lower Extrem & Humer Proc Except Hip,foot,femur	1	-2.676353131	0.22463673	-11.91413857	<.0001
MDRG_820	Foot Procedures	1	-2.479487603	0.457626674	-5.41814484	<.0001
MDRG_824	Shoulder,elbow Or Forearm Proc,exc Major Joint Proc	1	-2.480034112	0.464537076	-5.338721585	<.0001
MDRG_826	Other Musculoskelet Sys & Conn Tiss O.R. Proc	1	-0.64000063	0.093533196	-6.842497195	<.0001
MDRG_901	Skin Debridement Or Skin Graft For Skin Ulcer Or Cellulitis	1	0.224605464	0.093881534	2.392434955	0.0167
MDRG_902	Skin Graft Exc For Skin Ulcer Or Cellulitis	1	1.325190756	0.10644027	12.45008827	<.0001
MDRG_903	Other Skin, Subcut Tiss & Breast Proc	1	1.536934069	0.049747592	30.89464226	<.0001
MDRG_904	Mastectomy For Malignancy	1	1.478920214	0.108071358	13.68466394	<.0001
MDRG_905	Breast Biopsy, Local Excision & Other Breast Procedures	1	1.36607618	0.108141038	12.63235682	<.0001
MDRG_1002	Amputat Of Lower Limb For Endocrine,nutrit,& Metabol Dis	1	-0.464870883	0.137525233	-3.380258818	0.0007
MDRG_1003	O.R. Procedures For Obesity	1	-0.496035508	0.076213491	-6.50850005	<.0001
MDRG_1005	Thyroid, Parathyroid & Thyroglossal Procedures	1	1.635376819	0.078642278	20.79513543	<.0001
MDRG_1101	Kidney Transplant	1	1.16122819	0.131116353	8.856471093	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_1107	Transurethral Procedures	1	-3.731761313	0.579910778	-6.435061144	<.0001
MDRG_1201	Major Male Pelvic Procedures	1	-1.017173501	0.135939637	-7.482538034	<.0001
MDRG_1304	Uterine & Adnexa Proc For Non-Malignancy	1	0.272858375	0.055328496	4.931606573	<.0001
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	-0.267097619	0.057674107	-4.631153065	<.0001
MDRG_2104	Other O.R. Procedures For Injuries	1	-0.061219038	0.10337714	-0.59219125	0.5537
MDRG_7701	Heart Transplant Or Implant Of Heart Assist System	1	2.692862154	0.115328933	23.34940664	<.0001
MDRG_7702	Liver Transplant	1	2.318556337	0.149159278	15.54416435	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.099402008	0.033988807	2.924551228	0.0034

c-statistic=0.771

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 8. Risk Adjustment Coefficients for PSI 10 Postoperative Physiologic and Metabolic Derangement Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-7.330713469	0.088723727	-82.62404824	<.0001
Age	Male, Age < 30	1	-0.140015729	0.422055161	-0.331747464	0.7401
Age	Male, Age < 35	1	-0.394363914	0.38307439	-1.029470838	0.3033
Age	Male, Age < 40	1	0.046929445	0.292138973	0.160640822	0.8724
Age	Male, Age < 45	1	0.209561345	0.255130438	0.821389039	0.4114
Age	Male, Age < 50	1	-0.399029119	0.196306708	-2.032682034	0.0421
Age	Male, Age < 55	1	-0.090715215	0.128475783	-0.706088047	0.4801
Age	Male, Age < 60	1	0.000793942	0.104636123	0.007587643	0.9939
Age	Male, Age < 65	1	-0.050215914	0.097864693	-0.513115737	0.6079
Age	Male, Age >= 65	1	0.098084716	0.092242096	1.063340056	0.2876
Age	Male, Age >= 70	1	0.055099316	0.088966842	0.619324175	0.5357
Age	Male, Age >= 75	1	0.113929119	0.088009864	1.294503983	0.1955
Age	Male, Age >= 80	1	-0.182525779	0.105977964	-1.722299358	0.085
Age	Male, Age >= 85	1	-0.095904977	0.149430658	-0.641802547	0.521
Age	Male, Age >= 90	1	-0.169287294	0.275810129	-0.613782007	0.5394
Age	Female, Age < 30	1	-0.557500101	0.566306664	-0.984449128	0.3249
Age	Female, Age < 35	1	0.063109727	0.48677172	0.129649535	0.8968
Age	Female, Age < 40	1	-0.326222082	0.398408012	-0.818814061	0.4129
Age	Female, Age < 45	1	-0.652090758	0.289673436	-2.251123773	0.0244
Age	Female, Age < 50	1	-0.164777398	0.203669584	-0.809042736	0.4185
Age	Female, Age < 55	1	-0.081274878	0.16719602	-0.486105339	0.6269
Age	Female, Age < 60	1	-0.077743006	0.141870321	-0.547986398	0.5837
Age	Female, Age < 65	1	-0.269145166	0.118198532	-2.277060139	0.0228
Age	Female, Age >= 70	1	-0.002564515	0.102200259	-0.025093033	0.98
Age	Female, Age >= 75	1	0.269262262	0.112558568	2.392196942	0.0167
Age	Female, Age >= 80	1	-0.181626329	0.128997838	-1.40797963	0.1591

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 85	1	-0.330227638	0.196866871	-1.677415994	0.0935
Age	Female, Age >= 90	1	-0.169869639	0.333483181	-0.509379928	0.6105
DM	Diabetes w/o chronic complications	1	-0.282860529	0.062786079	-4.505147192	<.0001
CHF	Congestive heart failure	1	0.789300981	0.088873974	8.88112627	<.0001
COAG	Coagulopathy	1	0.392258335	0.080118537	4.895974738	<.0001
DMCX	Diabetes w/ chronic complications	1	0.176265104	0.055856114	3.155699359	0.0016
METS	Metastatic cancer	1	0.102954037	0.110826817	0.928963226	0.3529
HTN C	Hypertension	1	-0.40557918	0.048403719	-8.379091257	<.0001
LIVER	Liver disease	1	0.407213431	0.090010525	4.524064605	<.0001
LYTES	Fluid and electrolyte disorders	1	0.374137872	0.070666834	5.294391326	<.0001
OBESE	Obesity	1	0.520793134	0.049780853	10.46171585	<.0001
VALVE	Valvular disease	1	0.428214337	0.109040244	3.927121967	<.0001
ANEMDEF	Deficiency Anemias	1	0.194610913	0.058740245	3.313076295	0.0009
BLDLOSS	Chronic blood loss anemia	1	-0.015443431	0.20328623	-0.0759689	0.9394
DEPRESS	Depression	1	-0.243147101	0.074058316	-3.283184323	0.001
HYPOTHY	Hypothyroidism	1	-0.178569464	0.05842524	-3.056375373	0.0022
CHRNLUNG	Chronic pulmonary disease	1	0.17160737	0.046747372	3.67095226	0.0002
PERIVASC	Peripheral vascular disease	1	0.24800201	0.051448807	4.820364634	<.0001
PULMCIRC	Pulmonary circulation disease	1	0.919407354	0.119018569	7.724906806	<.0001
RENLFAIL	Renal failure	1	1.494391972	0.051917058	28.78421935	<.0001
WGHTLOSS	Weight loss	1	0.950209905	0.080492124	11.80500468	<.0001
MDRG_103	Craniotomy & Endovascular Intracranial Procedures	1	-2.200355996	0.503810486	-4.367427947	<.0001
MDRG_107	Extracranial Procedures	1	-1.207531152	0.244234873	-4.944138968	<.0001
MDRG_402	Other Resp System O.R. Procedures	1	-2.307390738	0.687814499	-3.354670105	0.0008
MDRG_503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	1.842138878	0.068624472	26.84376043	<.0001
MDRG_505	Other Cardiothoracic Procedures	1	1.485228813	0.196489147	7.55883383	<.0001
MDRG_507	Coronary Bypass W/O PTCA	1	1.050660364	0.090041892	11.6685727	<.0001
MDRG_514	Other Vascular Procedures	1	-0.319864254	0.144719715	-2.210232753	0.0271

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_540	Endovascular Cardiac Valve Replacement	1	0.378506426	0.135329367	2.796927488	0.0052
MDRG_541	Aortic And Heart Assist Procedures Except Pulsation Balloon	1	1.263505397	0.109739479	11.51368138	<.0001
MDRG_542	Other Major Cardiovascular Procedures	1	1.322829082	0.119132312	11.1038648	<.0001
MDRG_601	Stomach, Esophageal & Duodenal Proc	1	0.271761438	0.144896867	1.875550821	0.0607
MDRG_602	Major Small & Large Bowel Procedures	1	0.111721438	0.088915849	1.25648508	0.2089
MDRG_610	Hernia Procedures Except Inguinal & Femoral	1	-0.85632023	0.285760955	-2.996631331	0.0027
MDRG_701	Pancreas, Liver & Shunt Procedures	1	1.069510544	0.135366362	7.900859022	<.0001
MDRG_803	Spinal Fusion Except Cervical	1	-1.417880172	0.186774519	-7.591400457	<.0001
MDRG_805	Wnd Debrid & Skn Grft Exc Hand, For Musculo-Conn Tiss Dis	1	-0.705258093	0.277618282	-2.540387793	0.0111
MDRG_806	Revision Of Hip Or Knee Replacement	1	-1.778536252	0.324242274	-5.485207803	<.0001
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	-2.459683698	0.132589012	-18.55118808	<.0001
MDRG_808	Cervical Spinal Fusion	1	-2.172584824	0.34304821	-6.33317639	<.0001
MDRG_812	Major Joint/Limb Reattachment Procedure Of Upper Extremities	1	-4.132971242	0.848682207	-4.869869083	<.0001
MDRG_815	Back & Neck Proc Exc Spinal Fusion Or Disc Device/Neurostim	1	-2.084211031	0.477828085	-4.361842882	<.0001
MDRG_816	Lower Extrem & Humer Proc Except Hip,foot,femur	1	-2.085900337	0.55102757	-3.785473636	0.0002
MDRG_826	Other Musculoskelet Sys & Conn Tiss O.R. Proc	1	-1.491617959	0.365330651	-4.082925854	<.0001
MDRG_1102	Major Bladder Procedures	1	0.428529101	0.20722112	2.067979856	0.0386
MDRG_1103	Kidney & Ureter Procedures For Neoplasm	1	0.540731699	0.115316664	4.689102852	<.0001
MDRG_1304	Uterine & Adnexa Proc For Non-Malignancy	1	-1.401353445	0.27309225	-5.131428832	<.0001
MDRG_7701	Heart Transplant Or Implant Of Heart Assist System	1	2.375099756	0.190823731	12.4465639	<.0001
MDRG_7702	Liver Transplant	1	2.55443349	0.297900702	8.574781696	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.489749495	0.09876364	4.958803623	<.0001

c-statistic=0.906

**Table 9. Risk Adjustment Coefficients for PSI 11 - Postoperative Respiratory Failure Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-5.705809117	0.036440299	24517.18619	<.0001
Age	Male, Age < 30	1	0.187904001	0.125353138	2.246992584	0.1339
Age	Male, Age < 35	1	-0.058064131	0.128414526	0.20445021	0.6512
Age	Male, Age < 40	1	0.036326375	0.106613672	0.116096282	0.7333
Age	Male, Age < 45	1	-0.095981278	0.08738866	1.206321033	0.2721
Age	Male, Age < 50	1	-0.070583807	0.067159078	1.10458898	0.2933
Age	Male, Age < 55	1	-0.107901343	0.053122471	4.125695458	0.0422
Age	Male, Age < 60	1	-0.038690389	0.045518821	0.722477262	0.3953
Age	Male, Age < 65	1	0.026102742	0.041377268	0.397968429	0.5281
Age	Male, Age >= 65	1	0.13611957	0.039177746	12.07152806	0.0005
Age	Male, Age >= 70	1	0.10372366	0.040412972	6.587400607	0.0103
Age	Male, Age >= 75	1	0.133739942	0.043974669	9.24947549	0.0024
Age	Male, Age >= 80	1	0.073748917	0.053345877	1.911215146	0.1668
Age	Male, Age >= 85	1	0.095486769	0.073474171	1.688950832	0.1937
Age	Male, Age >= 90	1	0.13029445	0.124504127	1.095177048	0.2953
Age	Female, Age < 30	1	0.291264215	0.133298656	4.774443101	0.0289
Age	Female, Age < 35	1	-0.225160857	0.127405625	3.123263208	0.0772
Age	Female, Age < 40	1	-0.068317264	0.097493278	0.49103403	0.4835
Age	Female, Age < 45	1	-0.161246995	0.07936671	4.127684541	0.0422
Age	Female, Age < 50	1	-0.206310144	0.06305081	10.70680319	0.0011
Age	Female, Age < 55	1	-0.163020742	0.051056869	10.19476881	0.0014
Age	Female, Age < 60	1	-0.071578474	0.044711405	2.562879827	0.1094
Age	Female, Age < 65	1	-0.105200695	0.040599542	6.714210316	0.0096
Age	Female, Age >= 70	1	0.123649875	0.039389663	9.854233122	0.0017
Age	Female, Age >= 75	1	0.091324418	0.043433599	4.421017124	0.0355
Age	Female, Age >= 80	1	0.077810736	0.053054483	2.150972579	0.1425

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 85	1	0.066944387	0.072425892	0.854359478	0.3553
Age	Female, Age >= 90	1	-0.110102758	0.123679722	0.792500225	0.3733
DM	Diabetes w/o chronic complications	1	0.05640291	0.021999865	6.57299034	0.0104
CHF	Congestive heart failure	1	0.632990816	0.026811409	557.3853554	<.0001
ARTH	Rheumatoid arthritis/collagen vas	1	0.049422821	0.041550853	1.414800413	0.2343
COAG	Coagulopathy	1	0.704739635	0.036690701	368.931196	<.0001
DMCX	Diabetes w/ chronic complications	1	0.252314863	0.026248186	92.40321661	<.0001
DRUG	Drug abuse	1	0.305048008	0.062586941	23.7557607	<.0001
METS	Metastatic cancer	1	0.229083557	0.037357593	37.60365527	<.0001
PARA	Paralysis	1	0.767859638	0.041855674	336.5541903	<.0001
HTN C	Hypertension	1	0.156564685	0.018367234	72.66078579	<.0001
LIVER	Liver disease	1	0.20066377	0.037184121	29.12211429	<.0001
LYTES	Fluid and electrolyte disorders	1	0.756414781	0.02443203	958.5193694	<.0001
NEURO	Neurological disease	1	0.382140563	0.032625569	137.1924148	<.0001
OBESE	Obesity	1	0.523016331	0.018469049	801.9392063	<.0001
PSYCH	Psychoses	1	0.402075896	0.046614097	74.40147174	<.0001
TUMOR	Solid tumor w/out metastasis	1	0.114343264	0.047109221	5.891275433	0.0152
ULCER	Peptic ulcer Disease x bleeding	1	0.416290738	0.07183572	33.58246756	<.0001
VALVE	Valvular disease	1	0.198087531	0.034669832	32.64455921	<.0001
ALCOHOL	Alcohol abuse	1	0.497807619	0.046340323	115.399777	<.0001
ANEMDEF	Deficiency Anemias	1	0.128634385	0.023317674	30.43292427	<.0001
DEPRESS	Depression	1	0.121991749	0.02281322	28.59484498	<.0001
HYPOTHY	Hypothyroidism	1	0.013199213	0.022977909	0.329970458	0.5657
CHRNLUNG	Chronic pulmonary disease	1	0.526363663	0.018159552	840.1590863	<.0001
PERIVASC	Peripheral vascular disease	1	0.216398537	0.030015717	51.97699892	<.0001
PULMCIRC	Pulmonary circulation disease	1	0.794772713	0.040857149	378.3988224	<.0001
RENLF FAIL	Renal failure	1	0.373311966	0.024270693	236.5807872	<.0001
WGHTLOSS	Weight loss	1	0.914424084	0.029533666	958.651142	<.0001
MDRG 103	Craniotomy & Endovascular Intracranial	1	0.836065716	0.042507682	386.8530067	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
	Procedures					
MDRG_106	Carotid Artery Stent Procedure	1	-0.935897174	0.206055285	20.62950262	<.0001
MDRG_107	Extracranial Procedures	1	-0.257932749	0.056732308	20.67055158	<.0001
MDRG_302	Other Ear, Nose, Mouth & Throat O.R. Procedures	1	0.845541219	0.138679316	37.17459001	<.0001
MDRG_601	Stomach, Esophageal & Duodenal Proc	1	1.134478868	0.038167588	883.4935661	<.0001
MDRG_602	Major Small & Large Bowel Procedures	1	0.741989484	0.028188744	692.8576833	<.0001
MDRG_604	Peritoneal Adhesiolysis	1	0.892342016	0.062513167	203.7603502	<.0001
MDRG_610	Hernia Procedures Except Inguinal & Femoral	1	0.740323546	0.050834477	212.0930384	<.0001
MDRG_701	Pancreas, Liver & Shunt Procedures	1	1.238602026	0.047119036	690.988429	<.0001
MDRG_704	Cholecystectomy Except By Laparoscope W/O C.D.E.	1	0.732018655	0.098567012	55.15452101	<.0001
MDRG_705	Laparoscopic Cholecystectomy W/O C.D.E.	1	0.526530044	0.069390648	57.57638979	<.0001
MDRG_801	Combined Anterior/Posterior Spinal Fusion	1	0.878847307	0.051978019	285.8823932	<.0001
MDRG_802	Spinal Fus Exc Cerv W Spinal Curv/Malig/Infec Or Ext Fus	1	1.065134531	0.066149237	259.2741673	<.0001
MDRG_803	Spinal Fusion Except Cervical	1	-0.405131962	0.041693258	94.41942604	<.0001
MDRG_804	Bilateral Or Multiple Major Joint Procs Of Lower Extremity	1	-0.834527211	0.127042614	43.15013545	<.0001
MDRG_805	Wnd Debrid & Skn Grft Exc Hand, For Musculo-Conn Tiss Dis	1	-0.565752917	0.09553967	35.06599191	<.0001
MDRG_806	Revision Of Hip Or Knee Replacement	1	-1.020479975	0.079824875	163.4302639	<.0001
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	-1.46816849	0.033393584	1932.972725	<.0001
MDRG_808	Cervical Spinal Fusion	1	-0.151515106	0.04675434	10.50190301	0.0012
MDRG_812	Major Joint/Limb Reattachment Procedure Of Upper Extremities	1	-1.145895712	0.073108505	245.6712762	<.0001
MDRG_815	Back & Neck Proc Exc Spinal Fusion Or Disc Device/Neurostim	1	-0.736385389	0.086287724	72.83033309	<.0001
MDRG_816	Lower Extrem & Humer Proc Except Hip,foot,femur	1	-0.888982749	0.110672263	64.52218842	<.0001
MDRG_826	Other Musculoskelet Sys & Conn Tiss O.R. Proc	1	-0.709366203	0.086949099	66.55961674	<.0001
MDRG_901	Skin Debridement Or Skin Graft For Skin	1	-0.866498588	0.16490828	27.60900745	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
	Ulcer Or Cellulitis					
MDRG_903	Other Skin, Subcut Tiss & Breast Proc	1	-0.733200693	0.115660772	40.18588738	<.0001
MDRG_1001	Adrenal & Pituitary Procedures	1	0.329310206	0.117394365	7.86893356	0.005
MDRG_1003	O.R. Procedures For Obesity	1	-0.521880367	0.062400832	69.94572176	<.0001
MDRG_1102	Major Bladder Procedures	1	0.968588269	0.063441806	233.091985	<.0001
MDRG_1103	Kidney & Ureter Procedures For Neoplasm	1	0.646458639	0.048315725	179.0212093	<.0001
MDRG_1201	Major Male Pelvic Procedures	1	-0.864898851	0.093387778	85.77299196	<.0001
MDRG_1302	Uterine & Adnexa Proc For Ovarian Or Adnexal Malignancy	1	0.805428053	0.092528106	75.77154836	<.0001
MDRG_1304	Uterine & Adnexa Proc For Non-Malignancy	1	-0.486882985	0.06563165	55.03291859	<.0001
MDRG_1709	Myeloprolif Disord Or Poorly Diff Neopl W Maj O.R. Proc	1	1.287762134	0.09602946	179.8300748	<.0001
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	1.003896423	0.05519829	330.7703449	<.0001
MDRG_2104	Other O.R. Procedures For Injuries	1	0.579395312	0.069670795	69.15895513	<.0001
MDRG_7702	Liver Transplant	1	1.816700222	0.107883239	283.5688901	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.24644388	0.053392972	21.30433012	<.0001

c-statistic= 0.825

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 10. Risk Adjustment Coefficients for PSI 12 Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-5.842777675	0.039177826	-149.1348108	<.0001
Age	Male, Age < 30	1	0.012205616	0.089953621	0.135687876	0.8921
Age	Male, Age < 35	1	-0.078821745	0.091932339	-0.857388658	0.3912
Age	Male, Age < 40	1	-0.182352384	0.079668919	-2.288877351	0.0221
Age	Male, Age < 45	1	-0.025592095	0.065827077	-0.388777632	0.6974
Age	Male, Age < 50	1	-0.003993521	0.051101445	-0.07814888	0.9377
Age	Male, Age < 55	1	-0.06096845	0.042018077	-1.45100526	0.1468
Age	Male, Age < 60	1	-0.033518961	0.039055376	-0.85824193	0.3908
Age	Male, Age < 65	1	0.074205883	0.036184724	2.05075168	0.0403
Age	Male, Age >= 65	1	0.103188233	0.036804695	2.803670373	0.0051
Age	Male, Age >= 70	1	0.072087977	0.037520338	1.921304054	0.0547
Age	Male, Age >= 75	1	0.024720705	0.039126708	0.631811543	0.5275
Age	Male, Age >= 80	1	0.032788809	0.046188483	0.709891451	0.4778
Age	Male, Age >= 85	1	-0.046584054	0.058339767	-0.798495711	0.4246
Age	Male, Age >= 90	1	-0.08647801	0.089239545	-0.969054808	0.3325
Age	Female, Age < 30	1	0.007089655	0.103000656	0.068831163	0.9451
Age	Female, Age < 35	1	-0.00131745	0.103460026	-0.012733903	0.9898
Age	Female, Age < 40	1	-0.113666273	0.091727033	-1.239179659	0.2153
Age	Female, Age < 45	1	-0.107710333	0.075558528	-1.42552186	0.154
Age	Female, Age < 50	1	-0.029131671	0.062283018	-0.467730552	0.64
Age	Female, Age < 55	1	-0.14965982	0.052704986	-2.839576131	0.0045
Age	Female, Age < 60	1	-0.100257482	0.042267863	-2.371955311	0.0177
Age	Female, Age < 65	1	-0.069488855	0.038848392	-1.788718956	0.0737
Age	Female, Age >= 70	1	0.127937277	0.036984352	3.459227202	0.0005

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 75	1	0.038054222	0.040383676	0.942316919	0.346
Age	Female, Age >= 80	1	0.021539742	0.044070753	0.488753651	0.625
Age	Female, Age >= 85	1	0.025256559	0.049485572	0.510382269	0.6098
Age	Female, Age >= 90	1	-0.253006733	0.062320922	-4.059739884	<.0001
DM	Diabetes w/o chronic complications	1	-0.242909574	0.022585451	-10.75513522	<.0001
CHF	Congestive heart failure	1	0.101285948	0.028378574	3.56909924	0.0004
COAG	Coagulopathy	1	0.273389135	0.028751478	9.50869865	<.0001
DMCX	Diabetes w/ chronic complications	1	-0.167067659	0.025560555	-6.536151525	<.0001
DRUG	Drug abuse	1	0.099404649	0.048662956	2.042717033	0.0411
METS	Metastatic cancer	1	0.774989787	0.028805782	26.90396674	<.0001
PARA	Paralysis	1	0.394794529	0.034955494	11.29420542	<.0001
HTN_C	Hypertension	1	-0.092323555	0.017779468	-5.192706153	<.0001
LIVER	Liver disease	1	-0.102979087	0.038559604	-2.670646886	0.0076
LYMPH	Lymphoma	1	0.179997099	0.07112428	2.53074055	0.0114
LYTES	Fluid and electrolyte disorders	1	0.334432541	0.020251365	16.51407448	<.0001
NEURO	Neurological disease	1	0.096954233	0.026628641	3.640975656	0.0003
OBESE	Obesity	1	0.437060941	0.017910331	24.40272869	<.0001
PSYCH	Psychoses	1	0.026105784	0.044553654	0.585940356	0.5579
TUMOR	Solid tumor w/out metastasis	1	0.384584529	0.038716229	9.933419212	<.0001
ULCER	Peptic ulcer Disease x bleeding	1	0.333930186	0.053168575	6.280593093	<.0001
VALVE	Valvular disease	1	0.016850371	0.03352975	0.502549846	0.6153
ALCOHOL	Alcohol abuse	1	-0.019560596	0.039943241	-0.489709777	0.6243
ANEMDEF	Deficiency Anemias	1	0.043718506	0.021960865	1.990746094	0.0465
BLDLOSS	Chronic blood loss anemia	1	0.255821517	0.052062602	4.913729035	<.0001
DEPRESS	Depression	1	-0.051755672	0.022704578	-2.279525794	0.0226
PERIVASC	Peripheral vascular disease	1	0.046526288	0.026596937	1.749310006	0.0802
PULMCIRC	Pulmonary circulation disease	1	0.756933967	0.036117694	20.95742768	<.0001
RENLFAIL	Renal failure	1	0.034878393	0.022570863	1.545283994	0.1223

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
WGHTLOSS	Weight loss	1	0.590122872	0.026676314	22.12160497	<.0001
MDC_1	MDC 1: Nervous System	1	0.682895267	0.058405094	11.69239225	<.0001
MDC_3	MDC 3: Ear Nose Mouth And Throat	1	-0.619647361	0.110150266	-5.625473124	<.0001
MDC_4	MDC 4: Respiratory System	1	0.215401888	0.047939703	4.493183615	<.0001
MDC_5	MDC 5: Circulatory System	1	-0.023408415	0.041608151	-0.562592044	0.5737
MDC_7	MDC 7: Hepatobiliary System And Pancreas	1	0.034264154	0.069513163	0.492916051	0.6221
MDC_9	MDC 9: Skin Subcutaneous And Breast	1	-0.568981191	0.135577524	-4.196722086	<.0001
MDC_10	MDC 10: Endocrine Nutritional And Metabolic	1	-0.603201876	0.074920507	-8.051225193	<.0001
MDC_12	MDC 12: Male Reproductive System	1	-0.718933523	0.09690046	-7.419299376	<.0001
MDC_13	MDC 13: Female Reproductive System	1	0.504656446	0.074947798	6.733439252	<.0001
MDC_17	MDC 17: Myeloproliferative DDs	1	0.408689291	0.078151839	5.229426391	<.0001
MDC_18	MDC 18: Infectious and Parasitic	1	1.443800349	0.062215812	23.20632505	<.0001
MDC_24	MDC 24: Multiple Significant Trauma	1	1.817474037	0.065246869	27.8553447	<.0001
MDRG_102	Cranio W Major Dev Impl/Acute Complex CNS PDX	1	-0.110757922	0.103060269	-1.074690792	0.2825
MDRG_103	Craniotomy & Endovascular Intracranial Procedures	1	-0.565419521	0.076877409	-7.354820202	<.0001
MDRG_104	Spinal Procedures	1	-0.317117576	0.10467897	-3.029429662	0.0025
MDRG_106	Carotid Artery Stent Procedure	1	-2.261449486	0.380699207	-5.940252684	<.0001
MDRG_107	Extracranial Procedures	1	-2.616736842	0.181375058	-14.42721438	<.0001
MDRG_401	Major Chest Procedures	1	-0.155546311	0.070243175	-2.214397488	0.0268
MDRG_502	Perc Cardiovasc Proc W Non-Drug-Eluting Stent	1	-1.030345983	0.14165951	-7.273397929	<.0001
MDRG_503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	-0.019433478	0.065562503	-0.296411476	0.7669
MDRG_504	Cardiac Defibrillator Implant	1	-0.622922684	0.116538889	-5.345191523	<.0001
MDRG_510	Permanent Cardiac Pacemaker Implant And Procedures	1	-0.613269786	0.143264344	-4.28068681	<.0001
MDRG_511	Perc Cardiovasc Proc W Drug-Eluting Stent	1	-1.615656623	0.078703087	-20.52850384	<.0001
MDRG_514	Other Vascular Procedures	1	-0.384009225	0.067796988	-5.664104492	<.0001
MDRG_515	Upper Limb & Toe Amputation For Circ System Disorders	1	-1.583809623	0.36441452	-4.346175948	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_517	Cardiac Pacemaker Revision Except Device Replacement	1	0.082479302	0.189800337	0.434558248	0.6639
MDRG_540	Endovascular Cardiac Valve Replacement	1	-0.760011205	0.138721797	-5.478671873	<.0001
MDRG_542	Other Major Cardiovascular Procedures	1	0.317850976	0.069374386	4.581676259	<.0001
MDRG_543	Percutaneous Intracardiac Procedures	1	-0.624838145	0.119121622	-5.245379769	<.0001
MDRG_601	Stomach, Esophageal & Duodenal Proc	1	0.265777162	0.046117188	5.763082623	<.0001
MDRG_602	Major Small & Large Bowel Procedures	1	0.340735968	0.0334293	10.19273407	<.0001
MDRG_604	Peritoneal Adhesiolysis	1	0.27564864	0.066244972	4.161049971	<.0001
MDRG_605	Appendectomy W Complicated Principal Diag	1	-1.018496323	0.157401417	-6.470693489	<.0001
MDRG_606	Appendectomy W/O Complicated Principal Diag	1	-2.078779683	0.247166998	-8.410425749	<.0001
MDRG_610	Hernia Procedures Except Inguinal & Femoral	1	-0.184430092	0.078675992	-2.344172448	0.0191
MDRG_611	Other Digestive System O.R. Procedures	1	0.142679546	0.078284177	1.822584738	0.0684
MDRG_701	Pancreas, Liver & Shunt Procedures	1	0.586947247	0.093793116	6.257892613	<.0001
MDRG_705	Laparoscopic Cholecystectomy W/O C.D.E.	1	-1.391097174	0.098099411	-14.18048443	<.0001
MDRG_801	Combined Anterior/Posterior Spinal Fusion	1	0.618668143	0.076848887	8.050450271	<.0001
MDRG_802	Spinal Fus Exc Cerv W Spinal Curv/Malig/Infec Or Ext Fus	1	1.187496952	0.074221558	15.99935371	<.0001
MDRG_804	Bilateral Or Multiple Major Joint Procs Of Lower Extremity	1	0.723385273	0.098678194	7.330751042	<.0001
MDRG_805	Wnd Debrid & Skn Grft Exc Hand, For Musculo-Conn Tiss Dis	1	0.093808009	0.072610212	1.291939615	0.1964
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	-0.371698989	0.034872716	-10.65873348	<.0001
MDRG_808	Cervical Spinal Fusion	1	-0.958815755	0.087446924	-10.9645452	<.0001
MDRG_811	Hip & Femur Procedures Except Major Joint	1	0.358808775	0.0370473	9.685153285	<.0001
MDRG_812	Major Joint/Limb Reattachment Procedure Of Upper Extremities	1	-1.242773176	0.104295327	-11.91590465	<.0001
MDRG_815	Back & Neck Proc Exc Spinal Fusion Or Disc Device/Neurostim	1	-0.386038241	0.090743328	-4.254177684	<.0001
MDRG_816	Lower Extrem & Humer Proc Except Hip,foot,femur	1	-0.309586993	0.065664555	-4.714674348	<.0001
MDRG_819	Soft Tissue Procedures	1	-0.6431606	0.140654766	-4.572618607	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_820	Foot Procedures	1	-1.281238301	0.239399225	-5.351889923	<.0001
MDRG_824	Shoulder,elbow Or Forearm Proc,exc Major Joint Proc	1	-1.620114383	0.300549163	-5.390513705	<.0001
MDRG_901	Skin Debridement Or Skin Graft For Skin Ulcer Or Cellulitis	1	-0.558937506	0.199406957	-2.802999019	0.0051
MDRG_902	Skin Graft Exc For Skin Ulcer Or Cellulitis	1	-0.007693423	0.261011316	-0.029475438	0.9765
MDRG_903	Other Skin, Subcut Tiss & Breast Proc	1	-0.621844073	0.186168419	-3.340223198	0.0008
MDRG_1001	Adrenal & Pituitary Procedures	1	0.444968033	0.204089583	2.180258422	0.0292
MDRG_1003	O.R. Procedures For Obesity	1	-1.260956584	0.176316325	-7.151672329	<.0001
MDRG_1102	Major Bladder Procedures	1	0.734470215	0.092132676	7.971875412	<.0001
MDRG_1103	Kidney & Ureter Procedures For Neoplasm	1	0.371945857	0.078517912	4.737082898	<.0001
MDRG_1107	Transurethral Procedures	1	-0.831461718	0.11257435	-7.385889611	<.0001
MDRG_1302	Uterine & Adnexa Proc For Ovarian Or Adnexal Malignancy	1	0.605251673	0.118868718	5.091765794	<.0001
MDRG_1304	Uterine & Adnexa Proc For Non-Malignancy	1	-1.331238246	0.100532602	-13.24185607	<.0001
MDRG_1306	Vagina, Cervix & Vulva Procedures	1	-1.085819396	0.263374543	-4.122719617	<.0001
MDRG_1709	Myeloprolif Disord Or Poorly Diff Neopl W Maj O.R. Proc	1	0.492332371	0.154219184	3.192419761	0.0014
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	-1.067179908	0.061930274	-17.23195834	<.0001
MDRG_1802	Postoperative Or Post-Traumatic Infections W O.R. Proc	1	-1.266400962	0.096323602	-13.14735884	<.0001
MDRG_2101	Wound Debridements For Injuries	1	0.252981497	0.143723284	1.760198418	0.0784
MDRG_2104	Other O.R. Procedures For Injuries	1	0.251844693	0.068237979	3.690682167	0.0002
MDRG_2407	Limb Reattachment, Hip & Femur Proc For Multiple Significant Trauma	1	0.116269095	0.082335271	1.412142015	0.1579
MDRG_7701	Heart Transplant Or Implant Of Heart Assist System	1	1.200063005	0.119276269	10.06120511	<.0001
MDRG_7702	Liver Transplant	1	0.284126209	0.157162577	1.807849014	0.0706
MDRG_7703	Lung Transplant	1	1.06956561	0.230919866	4.631760925	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.570701849	0.027852241	20.49033843	<.0001

c-statistic=0.74

**Table 11. Risk Adjustment Coefficients for PSI 13 Postoperative Sepsis Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-5.228595813	0.052221223	-100.1239627	<.0001
Age	Male, Age < 30	1	-0.144321045	0.139220344	-1.036637615	0.2999
Age	Male, Age < 35	1	-0.022119782	0.146865225	-0.150612793	0.8803
Age	Male, Age < 40	1	-0.227708961	0.126539253	-1.799512458	0.0719
Age	Male, Age < 45	1	-0.013593196	0.092305771	-0.147262687	0.8829
Age	Male, Age < 50	1	-0.06289184	0.071245886	-0.882743467	0.3774
Age	Male, Age < 55	1	-0.142357844	0.056369477	-2.525442009	0.0116
Age	Male, Age < 60	1	-0.049253844	0.044138945	-1.11588177	0.2645
Age	Male, Age < 65	1	0.20278273	0.046144222	4.394542172	<.0001
Age	Male, Age >= 65	1	0.308368288	0.043575775	7.076598977	<.0001
Age	Male, Age >= 70	1	0.159555588	0.037805549	4.220427773	<.0001
Age	Male, Age >= 75	1	0.081845613	0.038830804	2.107749648	0.0351
Age	Male, Age >= 80	1	0.007291872	0.047854493	0.152375904	0.8789
Age	Male, Age >= 85	1	-0.108082386	0.067177739	-1.6089018	0.1076
Age	Male, Age >= 90	1	-0.201559518	0.12893914	-1.563214379	0.118
Age	Female, Age < 30	1	0.151513586	0.142811464	1.060934339	0.2887
Age	Female, Age < 35	1	-0.070774517	0.13658555	-0.518169874	0.6043
Age	Female, Age < 40	1	-0.229819158	0.113226914	-2.029721993	0.0424
Age	Female, Age < 45	1	-0.111791294	0.084591293	-1.321546102	0.1863
Age	Female, Age < 50	1	-0.13533249	0.073812658	-1.83345911	0.0667
Age	Female, Age < 55	1	-0.145478982	0.061255281	-2.374962285	0.0176
Age	Female, Age < 60	1	-0.040691694	0.050657576	-0.803269661	0.4218
Age	Female, Age < 65	1	-0.035903152	0.049305321	-0.728180058	0.4665
Age	Female, Age >= 70	1	0.187065739	0.048365807	3.867727027	0.0001
Age	Female, Age >= 75	1	0.060868385	0.048988215	1.242510792	0.214
Age	Female, Age >= 80	1	-0.072917726	0.060542966	-1.20439633	0.2284

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 85	1	0.070277699	0.074915445	0.938093598	0.3482
Age	Female, Age >= 90	1	-0.193101407	0.126871582	-1.522022537	0.128
DM	Diabetes w/o chronic complications	1	-0.289709503	0.028487186	-10.16981821	<.0001
CHF	Congestive heart failure	1	0.663996696	0.036252392	18.31594141	<.0001
ARTH	Rheumatoid arthritis/collagen vas	1	0.128492033	0.047968157	2.678694383	0.0074
COAG	Coagulopathy	1	0.479053156	0.038811578	12.34304775	<.0001
DMCX	Diabetes w/ chronic complications	1	0.135713092	0.032431852	4.184561858	<.0001
METS	Metastatic cancer	1	0.391842965	0.034192896	11.4597772	<.0001
PARA	Paralysis	1	0.712029607	0.050653834	14.05677605	<.0001
HTN_C	Hypertension	1	-0.160225395	0.023676339	-6.767321247	<.0001
LIVER	Liver disease	1	0.348876455	0.042481921	8.212351307	<.0001
LYTES	Fluid and electrolyte disorders	1	0.510603614	0.029735821	17.17133074	<.0001
NEURO	Neurological disease	1	0.288884634	0.035780295	8.073847305	<.0001
OBESE	Obesity	1	0.257581173	0.024823533	10.37649112	<.0001
PSYCH	Psychoses	1	0.281208507	0.055712053	5.047534453	<.0001
ULCER	Peptic ulcer Disease x bleeding	1	0.42466908	0.076687533	5.537654752	<.0001
ALCOHOL	Alcohol abuse	1	0.288083942	0.052342841	5.503788777	<.0001
ANEMDEF	Deficiency Anemias	1	0.111087973	0.029893122	3.716171672	0.0002
BLDLOSS	Chronic blood loss anemia	1	0.031508363	0.078164882	0.403101272	0.6869
DEPRESS	Depression	1	-0.014401221	0.027982385	-0.514653111	0.6068
HYPOTHY	Hypothyroidism	1	-0.132729474	0.028728373	-4.620152842	<.0001
CHRNLUNG	Chronic pulmonary disease	1	0.133302777	0.022996868	5.796562134	<.0001
PERIVASC	Peripheral vascular disease	1	0.09296924	0.031713101	2.931572084	0.0034
PULMCIRC	Pulmonary circulation disease	1	0.789050744	0.050408666	15.65307714	<.0001
RENLFAIL	Renal failure	1	0.535224888	0.027207229	19.67215743	<.0001
WGHTLOSS	Weight loss	1	1.310348152	0.034799948	37.65373898	<.0001
MDC_1	MDC 1: Nervous System	1	-0.716387321	0.064513017	-11.10453913	<.0001
MDC_3	MDC 3: Ear Nose Mouth And Throat	1	-0.258258365	0.076224561	-3.388125331	0.0007

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC_4	MDC 4: Respiratory System	1	0.13223848	0.065531062	2.017951124	0.0436
MDC_7	MDC 7: Hepatobiliary System And Pancreas	1	0.329530325	0.067681869	4.868812447	<.0001
MDC_9	MDC 9: Skin Subcutaneous And Breast	1	-1.708843194	0.119680724	-14.27834943	<.0001
MDC_10	MDC 10: Endocrine Nutritional And Metabolic	1	-1.250664923	0.070272639	-17.79732391	<.0001
MDC_11	MDC 11: Kidney And Urinary Tract	1	-0.26718389	0.054092929	-4.939349669	<.0001
MDC_13	MDC 13: Female Reproductive System	1	-0.093691494	0.069652403	-1.345129383	0.1786
MDC_17	MDC 17: Myeloproliferative DDs	1	0.074282662	0.107904322	0.688412292	0.4912
MDRG_107	Extracranial Procedures	1	-1.421282795	0.137936518	-10.30389062	<.0001
MDRG_401	Major Chest Procedures	1	-0.326243872	0.079323843	-4.112809711	<.0001
MDRG_503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	0.076256804	0.050967471	1.496185761	0.1346
MDRG_507	Coronary Bypass W/O PTCA	1	-0.392646347	0.065735079	-5.97316311	<.0001
MDRG_511	Perc Cardiovasc Proc W Drug-Eluting Stent	1	-1.559739546	0.133496626	-11.68373763	<.0001
MDRG_514	Other Vascular Procedures	1	-0.978224908	0.074907341	-13.05913282	<.0001
MDRG_540	Endovascular Cardiac Valve Replacement	1	-1.149240832	0.117114442	-9.812972775	<.0001
MDRG_542	Other Major Cardiovascular Procedures	1	0.205181562	0.073334505	2.797885678	0.0051
MDRG_601	Stomach, Esophageal & Duodenal Proc	1	0.665390332	0.047074574	14.13481381	<.0001
MDRG_602	Major Small & Large Bowel Procedures	1	0.494432156	0.036594893	13.51096054	<.0001
MDRG_604	Peritoneal Adhesiolysis	1	0.064056126	0.087370181	0.733157763	0.4635
MDRG_701	Pancreas, Liver & Shunt Procedures	1	0.530183887	0.081910571	6.472716267	<.0001
MDRG_801	Combined Anterior/Posterior Spinal Fusion	1	-0.345645967	0.08583702	-4.026770354	<.0001
MDRG_803	Spinal Fusion Except Cervical	1	-1.111200073	0.054815028	-20.27181448	<.0001
MDRG_804	Bilateral Or Multiple Major Joint Procs Of Lower Extremity	1	-1.649947651	0.160056328	-10.30854372	<.0001
MDRG_806	Revision Of Hip Or Knee Replacement	1	-1.668619032	0.107162736	-15.57088869	<.0001
MDRG_807	Major Joint Replacement Or Reattachment Of Lower Extremity	1	-2.313060675	0.048843902	-47.35618117	<.0001
MDRG_808	Cervical Spinal Fusion	1	-1.8037869	0.09130327	-19.75599448	<.0001
MDRG_812	Major Joint/Limb Reattachment Procedure Of Upper Extremities	1	-2.404255457	0.122697696	-19.59495192	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_815	Back & Neck Proc Exc Spinal Fusion Or Disc Device/Neurostim	1	-1.382938943	0.106964647	-12.92893482	<.0001
MDRG_816	Lower Extrem & Humer Proc Except Hip,foot,femur	1	-1.697429148	0.163330956	-10.39257464	<.0001
MDRG_826	Other Musculoskelet Sys & Conn Tiss O.R. Proc	1	-1.458220316	0.117053722	-12.45770144	<.0001
MDRG_1102	Major Bladder Procedures	1	1.188648091	0.074618802	15.92960557	<.0001
MDRG_1104	Kidney & Ureter Procedures For Non-Neoplasm	1	0.443713148	0.079928817	5.551353893	<.0001
MDRG_1201	Major Male Pelvic Procedures	1	-1.653503854	0.120916255	-13.6747855	<.0001
MDRG_1304	Uterine & Adnexa Proc For Non-Malignancy	1	-1.267187289	0.102258526	-12.3919964	<.0001
MDRG_1709	Myeloprolif Disord Or Poorly Diff Neopl W Maj O.R. Proc	1	0.668376117	0.139161359	4.802885826	<.0001
MDRG_1710	Myeloprolif Disord Or Poorly Diff Neopl W Other O.R. Proc	1	0.814072217	0.17259115	4.716766862	<.0001
MDRG_7701	Heart Transplant Or Implant Of Heart Assist System	1	1.908363936	0.129511471	14.73509586	<.0001
MDRG_7705	Allogeneic Or Autologous Bone Marrow Transplant	1	3.889673183	0.197810325	19.66365092	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.275418569	0.068363037	4.028764395	<.0001

c-statistic=0.847

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 12. Risk Adjustment Coefficients for PSI 14 Postoperative Wound Dehiscence Rate – Stratum A**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-7.10336843	0.154047867	-46.1114366	<.0001
Age	Male, Age < 30	1	0.032769313	0.303688327	0.107904421	0.9141
Age	Male, Age < 35	1	-0.28446032	0.325779234	-0.87316896	0.3826
Age	Male, Age < 40	1	0.410882364	0.293551716	1.399693281	0.1616
Age	Male, Age < 45	1	-0.35575223	0.270004046	-1.31758112	0.1876
Age	Male, Age < 50	1	-0.21400149	0.202693635	-1.05578791	0.2911
Age	Male, Age < 55	1	0.067685417	0.15694299	0.431273912	0.6663
Age	Male, Age < 60	1	-0.08673312	0.140709444	-0.61639868	0.5376
Age	Male, Age < 65	1	0.640679259	0.157231436	4.074752971	<.0001
Age	Male, Age >= 65	1	0.64942627	0.150348048	4.319485876	<.0001
Age	Male, Age >= 70	1	0.206030642	0.129957813	1.585365567	0.1129
Age	Male, Age >= 75	1	-0.18848547	0.147005315	-1.28216772	0.1998
Age	Male, Age >= 80	1	0.043084568	0.174926949	0.246300343	0.8054
Age	Male, Age >= 85	1	-0.35691926	0.250879982	-1.42266933	0.1548
Age	Male, Age >= 90	1	0.554980765	0.327005948	1.697158014	0.0897
Age	Female, Age < 30	1	-1.28163258	0.573164728	-2.23606325	0.0253
Age	Female, Age < 35	1	0.892411414	0.465111199	1.918705498	0.055
Age	Female, Age < 40	1	-0.25851651	0.463251711	-0.5580476	0.5768
Age	Female, Age < 45	1	-0.58564851	0.316594626	-1.84983717	0.0643
Age	Female, Age < 50	1	0.10113416	0.247682607	0.408321607	0.683
Age	Female, Age < 55	1	-0.40100969	0.223127937	-1.79721866	0.0723
Age	Female, Age < 60	1	0.043769795	0.184255668	0.237549243	0.8122
Age	Female, Age < 65	1	-0.0455681	0.174243497	-0.26151967	0.7937
Age	Female, Age >= 70	1	-0.23738245	0.190992264	-1.24289039	0.2139
Age	Female, Age >= 75	1	0.236904138	0.205466984	1.153003434	0.2489
Age	Female, Age >= 80	1	-0.70527275	0.293870483	-2.39994417	0.0164

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 85	1	0.04789754	0.381421588	0.125576373	0.9001
Age	Female, Age >= 90	1	-0.17854695	0.526298991	-0.33925003	0.7344
DM	Diabetes w/o chronic complications	1	-0.60848551	0.101431655	-5.99897058	<.0001
CHF	Congestive heart failure	1	0.187525556	0.104037394	1.802482246	0.0715
DMCX	Diabetes w/ chronic complications	1	-0.58967586	0.128942345	-4.57317462	<.0001
DRUG	Drug abuse	1	0.102438936	0.170752428	0.599926676	0.5486
METS	Metastatic cancer	1	-0.23568384	0.116746271	-2.01876971	0.0435
HTN C	Hypertension	1	0.127136652	0.064648215	1.966591818	0.0492
LIVER	Liver disease	1	0.270943915	0.11883488	2.280003282	0.0226
LYTES	Fluid and electrolyte disorders	1	0.42879207	0.072983923	5.875157838	<.0001
NEURO	Neurological disease	1	0.336697959	0.108540882	3.102038177	0.0019
OBESE	Obesity	1	0.411687684	0.07548012	5.4542532	<.0001
PSYCH	Psychoses	1	0.476130055	0.145419521	3.274182533	0.0011
TUMOR	Solid tumor w/out metastasis	1	0.177360202	0.132112495	1.342493773	0.1794
ULCER	Peptic ulcer Disease x bleeding	1	0.607718962	0.158583055	3.832180953	0.0001
ALCOHOL	Alcohol abuse	1	0.418920643	0.118017278	3.549655186	0.0004
ANEMDEF	Deficiency Anemias	1	-0.13627523	0.087856859	-1.55110519	0.1209
BLDLOSS	Chronic blood loss anemia	1	-0.20065714	0.232246322	-0.86398413	0.3876
DEPRESS	Depression	1	0.209674035	0.08903816	2.354878338	0.0185
HYPOTHY	Hypothyroidism	1	-0.1159652	0.101995832	-1.13696018	0.2556
CHRNLUNG	Chronic pulmonary disease	1	0.575854088	0.067527892	8.527647897	<.0001
PERIVASC	Peripheral vascular disease	1	0.074939794	0.099042826	0.756640306	0.4493
PULMCIRC	Pulmonary circulation disease	1	0.506720732	0.15595932	3.249057075	0.0012
WGHTLOSS	Weight loss	1	0.491227556	0.09268417	5.300015707	<.0001
MDRG 541	Aortic And Heart Assist Procedures Except Pulsation Balloon	1	0.344373746	0.263496601	1.306938093	0.1912
MDRG 601	Stomach, Esophageal & Duodenal Proc	1	0.344150756	0.131848351	2.610201436	0.009
MDRG 602	Major Small & Large Bowel Procedures	1	0.492400539	0.086873859	5.667994343	<.0001
MDRG 604	Peritoneal Adhesiolysis	1	-0.56410059	0.185242258	-3.04520471	0.0023

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_605	Appendectomy W Complicated Principal Diag	1	0.096235345	0.323664881	0.297330204	0.7662
MDRG_608	Anal & Stomal Procedures	1	-1.12143187	0.496421629	-2.25903104	0.0239
MDRG_609	Inguinal & Femoral Hernia Procedures	1	-2.43799863	0.700867306	-3.47854524	0.0005
MDRG_610	Hernia Procedures Except Inguinal & Femoral	1	-2.24075456	0.39592936	-5.65948067	<.0001
MDRG_701	Pancreas, Liver & Shunt Procedures	1	0.182871614	0.179184924	1.020574778	0.3075
MDRG_704	Cholecystectomy Except By Laparoscope W/O C.D.E.	1	-1.10765322	0.321865768	-3.44135145	0.0006
MDRG_705	Laparoscopic Cholecystectomy W/O C.D.E.	1	0.627402398	0.289215043	2.169328372	0.0301
MDRG_801	Combined Anterior/Posterior Spinal Fusion	1	-2.82820681	0.635824072	-4.44809647	<.0001
MDRG_803	Spinal Fusion Except Cervical	1	-3.02662315	0.555511637	-5.44835238	<.0001
MDRG_815	Back & Neck Proc Exc Spinal Fusion Or Disc Device/Neurostim	1	-2.86611593	0.955439223	-2.99978886	0.0027
MDRG_826	Other Musculoskelet Sys & Conn Tiss O.R. Proc	1	-2.5739533	0.661949055	-3.88844621	0.0001
MDRG_903	Other Skin, Subcut Tiss & Breast Proc	1	-1.34882486	0.693938693	-1.94372338	0.0519
MDRG_1102	Major Bladder Procedures	1	1.082714723	0.158537639	6.829385946	<.0001
MDRG_1103	Kidney & Ureter Procedures For Neoplasm	1	-0.16689137	0.217079463	-0.76880314	0.442
MDRG_1201	Major Male Pelvic Procedures	1	-1.07923758	0.463786102	-2.32701579	0.02
MDRG_1302	Uterine & Adnexa Proc For Ovarian Or Adnexal Malignancy	1	0.010156019	0.317737202	0.031963581	0.9745
MDRG_1304	Uterine & Adnexa Proc For Non-Malignancy	1	-1.13287232	0.236196036	-4.79632232	<.0001
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	0.342568299	0.13004364	2.634256472	0.0084
MDRG_2407	Limb Reattachment, Hip & Femur Proc For Multiple Significant Trauma	1	1.385391163	0.418925821	3.307008294	0.0009
MDRG_2408	Other O.R. Procedures For Multiple Significant Trauma	1	0.86577298	0.227423452	3.806876438	0.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.529695345	0.113625511	4.661764242	<.0001

c-statistic=0.805

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 13. Risk Adjustment Coefficients for PSI 14 Postoperative Wound Dehiscence Rate – Stratum B**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-9.807573169	0.656467211	-14.93992847	<.0001
Age	Male, Age < 50	1	-0.083559335	0.842652356	-0.099162288	0.921
Age	Male, Age < 55	1	0.890769343	1.22688768	0.726039847	0.4678
Age	Male, Age < 60	1	-1.0816405	1.152327976	-0.938656808	0.3479
Age	Male, Age < 65	1	-0.029881901	0.827139768	-0.036126786	0.9712
Age	Male, Age >= 65	1	-1.136842439	1.153452181	-0.985599973	0.3243
Age	Male, Age >= 70	1	1.334790978	1.157016555	1.153648988	0.2486
Age	Male, Age >= 75	1	-0.166646111	0.910722513	-0.182982312	0.8548
Age	Male, Age >= 80	1	-0.340840658	1.218514872	-0.279718094	0.7797
Age	Male, Age >= 85	1	0.12004859	1.39716573	0.085922942	0.9315
Age	Female, Age < 50	1	0.153946395	1.110445651	0.138634786	0.8897
Age	Female Age < 55	1	0.026828266	1.410434975	0.019021271	0.9848
Age	Female, Age < 60	1	-0.753774494	1.228922267	-0.613362224	0.5396
Age	Female, Age < 65	1	-0.421378038	0.922884318	-0.456588144	0.648
Age	Female, Age >= 65	1	-0.14362412	0.901728281	-0.159276495	0.8735
Age	Female, Age >= 70	1	-0.452134785	1.222141778	-0.36995281	0.7114
Age	Female, Age >= 75	1	0.294819705	1.261938697	0.233624427	0.8153
DM	Diabetes w/o chronic complications	1	-0.646119845	0.527788085	-1.224203165	0.2209
CHF	Congestive heart failure	1	1.011234338	0.62530781	1.617178488	0.1058
ARTH	Rheumatoid arthritis/collagen vas	1	0.124923887	1.056243025	0.118271916	0.9059
COAG	Coagulopathy	1	-1.13160652	1.047096796	-1.080708607	0.2798
DMCX	Diabetes w/ chronic complications	1	-1.52757516	1.059191411	-1.442208787	0.1492
PARA	Paralysis	1	1.335110217	0.599373863	2.227508237	0.0259
HTN C	Hypertension	1	-0.177351315	0.354060845	-0.500906321	0.6164
LIVER	Liver disease	1	-0.257683693	0.624161635	-0.412847697	0.6797
LYTES	Fluid and electrolyte disorders	1	-1.253823563	0.644534106	-1.945317634	0.0517

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
NEURO	Neurological disease	1	0.644416034	0.50238021	1.282725753	0.1996
OBESE	Obesity	1	0.614880828	0.39354939	1.562398121	0.1182
TUMOR	Solid tumor w/out metastasis	1	-0.100916187	1.016071843	-0.099319933	0.9209
ULCER	Peptic ulcer Disease x bleeding	1	0.538094743	1.040134188	0.517332041	0.6049
VALVE	Valvular disease	1	0.175242021	0.795979442	0.220158979	0.8257
ALCOHOL	Alcohol abuse	1	0.648180445	0.613261341	1.056940006	0.2905
ANEMDEF	Deficiency Anemias	1	0.111451246	0.512122586	0.21762611	0.8277
BLDLOSS	Chronic blood loss anemia	1	0.850494408	1.016826918	0.836420036	0.4029
DEPRESS	Depression	1	-0.084240196	0.542434959	-0.155300087	0.8766
HYPOTHY	Hypothyroidism	1	-0.428341755	0.57700749	-0.742350424	0.4579
CHRNLUNG	Chronic pulmonary disease	1	0.907644876	0.380374269	2.386188945	0.017
PERIVASC	Peripheral vascular disease	1	-0.713148735	1.01047583	-0.705755362	0.4803
PULMCIRC	Pulmonary circulation disease	1	-0.253765045	1.134929287	-0.223595468	0.8231
RENLFAIL	Renal failure	1	0.139738507	0.593587485	0.235413499	0.8139
WGHTLOSS	Weight loss	1	-0.759214346	1.01912311	-0.744968236	0.4563
TRNSFER	Transfer from Another Acute Care Hospital	1	0.424747647	0.60344989	0.703865647	0.4815

c-statistic=0.774

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

**Table 14. Risk Adjustment Coefficients for PSI 15 Unrecognized Abdominopelvic Accidental Puncture/Laceration Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Intercept	Intercept	1	-7.06792742	0.071837457	-98.3877729	<.0001
Age	Male, Age < 30	1	0.265207483	0.214310648	1.237490931	0.2159
Age	Male, Age < 35	1	-0.19861414	0.227355025	-0.87358588	0.3823
Age	Male, Age < 40	1	-0.22989665	0.176059857	-1.30578686	0.1916
Age	Male, Age < 45	1	0.067232132	0.14851228	0.452704196	0.6508
Age	Male, Age < 50	1	-0.03832411	0.121422005	-0.31562736	0.7523
Age	Male, Age < 55	1	-0.0413746	0.102516425	-0.40358998	0.6865
Age	Male, Age < 60	1	0.052192863	0.0970889	0.537578066	0.5909
Age	Male, Age < 65	1	-0.24267735	0.085575755	-2.83581897	0.0046
Age	Male, Age >= 65	1	-0.18834349	0.080592511	-2.33698498	0.0194
Age	Male, Age >= 70	1	0.05367669	0.086997204	0.616993278	0.5372
Age	Male, Age >= 75	1	0.048201315	0.099282759	0.485495318	0.6273
Age	Male, Age >= 80	1	-0.0625999	0.114729768	-0.54562913	0.5853
Age	Male, Age >= 85	1	0.267090479	0.132753992	2.011920501	0.0442
Age	Male, Age >= 90	1	-0.57575622	0.211300344	-2.72482384	0.0064
Age	Female, Age < 30	1	-0.08535477	0.176979898	-0.48228513	0.6296
Age	Female, Age < 35	1	-0.24424538	0.162100715	-1.50675081	0.1319
Age	Female, Age < 40	1	-0.00555442	0.136981814	-0.04054861	0.9677
Age	Female, Age < 45	1	-0.06974102	0.118791615	-0.58708705	0.5571
Age	Female, Age < 50	1	-0.06914174	0.106348808	-0.65014121	0.5156
Age	Female, Age < 55	1	-0.01021178	0.095157018	-0.10731503	0.9145
Age	Female, Age < 60	1	-0.13058582	0.089004922	-1.46717528	0.1423
Age	Female, Age < 65	1	-0.02308169	0.079989553	-0.28855877	0.7729
Age	Female, Age >= 70	1	0.087700502	0.083297328	1.052860923	0.2924
Age	Female, Age >= 75	1	-0.00391628	0.089960129	-0.04353352	0.9653

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
Age	Female, Age >= 80	1	0.065394836	0.099022	0.66040714	0.509
Age	Female, Age >= 85	1	-0.09148452	0.107341152	-0.85227812	0.3941
Age	Female, Age >= 90	1	-0.15124861	0.154635938	-0.97809482	0.328
DM	Diabetes w/o chronic complications	1	-0.33349962	0.049712903	-6.70851225	<.0001
ARTH	Rheumatoid arthritis/collagen vas	1	0.144618305	0.080870141	1.788278126	0.0737
COAG	Coagulopathy	1	0.126044599	0.067975127	1.854275294	0.0637
DMCX	Diabetes w/ chronic complications	1	-0.22506201	0.058346972	-3.8573041	0.0001
HTN C	Hypertension	1	-0.04509025	0.035503866	-1.27000967	0.2041
LIVER	Liver disease	1	-0.05307849	0.065115403	-0.81514488	0.415
NEURO	Neurological disease	1	0.032337415	0.060346896	0.535858803	0.5921
OBESE	Obesity	1	0.193498616	0.043869083	4.410819715	<.0001
PSYCH	Psychoses	1	0.148658089	0.09290376	1.600129952	0.1096
TUMOR	Solid tumor w/out metastasis	1	0.005199361	0.080642181	0.064474461	0.9486
ULCER	Peptic ulcer Disease x bleeding	1	0.069220416	0.093169091	0.742954722	0.4575
VALVE	Valvular disease	1	-0.00434604	0.076261496	-0.05698862	0.9546
ALCOHOL	Alcohol abuse	1	-0.06543022	0.081045378	-0.80732826	0.4195
ANEMDEF	Deficiency Anemias	1	-0.14124285	0.043012254	-3.2837817	0.001
BLDLOSS	Chronic blood loss anemia	1	0.134389728	0.094199719	1.426646798	0.1537
DEPRESS	Depression	1	0.049105958	0.04894554	1.003277478	0.3157
HYPOTHY	Hypothyroidism	1	-0.17405476	0.050422601	-3.45191956	0.0006
CHRNLUNG	Chronic pulmonary disease	1	0.072654712	0.03951784	1.838529441	0.066
PERIVASC	Peripheral vascular disease	1	0.127359277	0.060169508	2.116674741	0.0343
PULMCIRC	Pulmonary circulation disease	1	0.175772396	0.091982777	1.910927265	0.056
RENLFAIL	Renal failure	1	0.071785742	0.051099939	1.404810712	0.1601
WGHTLOSS	Weight loss	1	0.735460121	0.045163542	16.28437652	<.0001
MDRG_114	Intracranial Hemorrhage Or Cerebral Infarction	1	-1.46052042	0.462030378	-3.16109176	0.0016
MDRG_404	Respiratory Infections & Inflammations	1	-2.82027185	0.968073426	-2.91328299	0.0036
MDRG_503	Cardiac Valve & Oth Maj Cardiothoracic Proc	1	1.877117502	0.157125399	11.94662041	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_514	Other Vascular Procedures	1	0.054209553	0.184056414	0.294526832	0.7684
MDRG_519	Other Circulatory System O.R. Procedures	1	1.676593392	0.251271097	6.672448251	<.0001
MDRG_540	Endovascular Cardiac Valve Replacement	1	2.025697669	0.275758057	7.345923788	<.0001
MDRG_541	Aortic And Heart Assist Procedures Except Pulsation Balloon	1	0.344565639	0.176069668	1.956984662	0.0503
MDRG_542	Other Major Cardiovascular Procedures	1	0.735903905	0.142705456	5.156802859	<.0001
MDRG_601	Stomach, Esophageal & Duodenal Proc	1	1.299065106	0.06733941	19.2913052	<.0001
MDRG_602	Major Small & Large Bowel Procedures	1	1.596071259	0.047289164	33.75131075	<.0001
MDRG_604	Peritoneal Adhesiolysis	1	0.323984426	0.135930871	2.383449946	0.0172
MDRG_605	Appendectomy W Complicated Principal Diag	1	-1.74691501	0.453027423	-3.85609109	0.0001
MDRG_606	Appendectomy W/O Complicated Principal Diag	1	-2.26762588	0.509026072	-4.45483248	<.0001
MDRG_607	Minor Small & Large Bowel Procedures	1	0.17404375	0.2241914	0.776317691	0.4376
MDRG_609	Inguinal & Femoral Hernia Procedures	1	-2.01855016	0.72816648	-2.77209981	0.0056
MDRG_610	Hernia Procedures Except Inguinal & Femoral	1	-1.1949317	0.271137197	-4.40711091	<.0001
MDRG_611	Other Digestive System O.R. Procedures	1	-0.19977356	0.175335398	-1.13937951	0.2545
MDRG_613	Major Gastrointestinal Disorders & Peritoneal Infections	1	-1.64880988	0.513893595	-3.20846552	0.0013
MDRG_614	Digestive Malignancy	1	-2.2116669	0.520278974	-4.25092501	<.0001
MDRG_615	G.I. Hemorrhage	1	-2.47026835	0.249210668	-9.91237	<.0001
MDRG_616	Complicated Peptic Ulcer	1	-1.97320398	0.583037488	-3.38435181	0.0007
MDRG_619	G.I. Obstruction	1	-3.69202224	1.070930133	-3.44749123	0.0006
MDRG_620	Esophagitis, Gastroent & Misc Digest Disorders	1	-2.20055364	0.282434225	-7.79138449	<.0001
MDRG_621	Other Digestive System Diagnoses	1	-1.62996551	0.28034537	-5.81413388	<.0001
MDRG_701	Pancreas, Liver & Shunt Procedures	1	1.310094588	0.108976938	12.0217599	<.0001
MDRG_702	Biliary Tract Proc Except Only Cholecyst W Or W/O C.D.E.	1	2.073852281	0.096815165	21.42073789	<.0001
MDRG_703	Cholecystectomy W C.D.E.	1	2.464204531	0.162956355	15.12186825	<.0001
MDRG_704	Cholecystectomy Except By Laparoscope W/O C.D.E.	1	1.698458664	0.115052974	14.76240557	<.0001
MDRG_707	Other Hepatobiliary Or Pancreas O.R. Procedures	1	0.73576187	0.362193821	2.031403704	0.0422

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_708	Cirrhosis & Alcoholic Hepatitis	1	-2.64557823	0.62279649	-4.24790163	<.0001
MDRG_709	Malignancy Of Hepatobiliary System Or Pancreas	1	-1.35931768	0.393889729	-3.45101074	0.0006
MDRG_710	Disorders Of Pancreas Except Malignancy	1	-1.45155635	0.416100761	-3.48847319	0.0005
MDRG_711	Disorders Of Liver Except Malig,cirr,alc Hepa	1	-2.24330619	0.592434139	-3.78659169	0.0002
MDRG_712	Disorders Of The Biliary Tract	1	-0.6888935	0.235796201	-2.92156317	0.0035
MDRG_801	Combined Anterior/Posterior Spinal Fusion	1	0.435327596	0.176527506	2.466060993	0.0137
MDRG_815	Back & Neck Proc Exc Spinal Fusion Or Disc Device/Neurostim	1	-1.38490661	0.523059126	-2.64770565	0.0081
MDRG_826	Other Musculoskelet Sys & Conn Tiss O.R. Proc	1	-0.90495403	0.32142931	-2.81540607	0.0049
MDRG_1003	O.R. Procedures For Obesity	1	-0.55469361	0.160208434	-3.46232468	0.0005
MDRG_1008	Misc Disorders Of Nutrition,metabolism,fluids/Electrolytes	1	-2.0355056	0.734562987	-2.77104296	0.0056
MDRG_1102	Major Bladder Procedures	1	1.822292625	0.12342286	14.76462807	<.0001
MDRG_1103	Kidney & Ureter Procedures For Neoplasm	1	0.883952451	0.115478663	7.654682075	<.0001
MDRG_1104	Kidney & Ureter Procedures For Non-Neoplasm	1	0.692395133	0.123079262	5.62560355	<.0001
MDRG_1107	Transurethral Procedures	1	-0.97277583	0.272959863	-3.56380539	0.0004
MDRG_1110	Renal Failure	1	-2.15174183	0.44629911	-4.82129986	<.0001
MDRG_1113	Kidney & Urinary Tract Infections	1	-2.50261106	0.713060319	-3.50967652	0.0004
MDRG_1115	Urinary Stones W/O Esw Lithotripsy	1	-1.52632365	0.403962609	-3.77837853	0.0002
MDRG_1118	Other Kidney & Urinary Tract Diagnoses	1	-1.93061504	0.531361046	-3.63333944	0.0003
MDRG_1201	Major Male Pelvic Procedures	1	-0.01909115	0.172399115	-0.11073811	0.9118
MDRG_1204	Transurethral Prostatectomy	1	0.200850787	0.268640982	0.74765505	0.4547
MDRG_1303	Uterine,adnexa Proc For Non-Ovarian/Adnexal Malig	1	0.971573742	0.171164478	5.676258025	<.0001
MDRG_1304	Uterine & Adnexa Proc For Non-Malignancy	1	0.600612875	0.083560481	7.187762342	<.0001
MDRG_1308	Other Female Reproductive System O.R. Procedures	1	1.091641298	0.271431685	4.021790234	<.0001
MDRG_1604	Red Blood Cell Disorders	1	-3.76420752	1.005439844	-3.74384161	0.0002
MDRG_1709	Myeloprolif Disord Or Poorly Diff Neopl W Maj O.R. Proc	1	1.310567422	0.245066799	5.347796709	<.0001

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG_1801	Infectious & Parasitic Diseases W O.R. Procedure	1	0.921082186	0.065985709	13.95881327	<.0001
MDRG_1802	Postoperative Or Post-Traumatic Infections W O.R. Proc	1	1.180668433	0.17486337	6.751948312	<.0001
MDRG_1807	Septicemia Or Severe Sepsis W MV >96 Hours	1	-2.77172568	1.081545118	-2.56274623	0.0104
MDRG_1808	Septicemia Or Severe Sepsis W/O MV >96 Hours	1	-2.44827736	0.32017304	-7.64673176	<.0001
TRNSFER	Transfer from Another Acute Care Hospital	1	0.181115248	0.063660976	2.844996423	0.0044

c-statistic=0.799

Please note the sex|age groups are open-ended and overlap. The effect for any sex|age group can be estimated by summing the coefficients for all applicable sex|age groups. Confidence intervals and p-values for sex|age groups cannot be estimated with this risk model. The sex| age reference group is women age 65 and 69 years.

## Composite Weights for PSI 90

Under the Hospital Inpatient Quality Reporting (IQR) program, the Centers for Medicare & Medicaid Services (CMS) adopted PSIs developed by AHRQ for use in “Hospital Compare”, a comparative public report of hospital performance. One of the adopted indicators is a composite measure: PSI 90 Patient Safety for Selected Indicators.

The PSI composite was ultimately endorsed by the National Quality Forum (NQF) in 2009 and therefore appears in the Hospital Compare report.

To utilize the NQF endorsed composite, users must use these “NQF Numerator Weights” when using the AHRQ QI software to compute the composite measure using their own data. Table 2 provides the NQF weights for this composite measure. The sum of the weights for the indicators included in the same composite always equals one.

Note that the weight for some of the component indicators is zero. The reason is that the composite measures developed in the AHRQ workgroup final reports included all of the relevant indicators regardless whether the indicator was endorsed by NQF. However, the evaluation criteria applied by NQF required that the components of a composite be either NQF endorsed as individual measures or determined to have met the criteria for endorsement of an individual measure. In the version of the AHRQ QI composite measures submitted to NQF, component indicators that did not meet these criteria were assigned a weight of zero. This method is simply a way of operationalizing the concept that the NQF-endorsed composites adopted by CMS do not include component indicators that were judged by the NQF not to meet the criteria for stand-alone endorsement.

**Table A.1. Population Age Categories**

POPCAT	AGE RANGE
1	low - 4
2	5 - 9
3	10 - 14
4	15 - 17
5	18 - 24
6	25 - 29
7	30 - 34
8	35 - 39
9	40 - 44
10	45 - 49
11	50 - 54
12	55 - 59
13	60 - 64
14	65 - 69
15	70 - 74
16	75 - 79
17	80 - 84
18	85 - high

**Table A.2. Modified Diagnosis-Related Group (MDRG) Categories**

Column Headings

MDC – Major Diagnostic Category  
M/S – Medical / Surgical DRG Indicator  
MDRG – Modified DRG  
MS-DRG – Diagnosis-Related Group (DRG) Version 25 and later

The modified DRG (MDRG) pools individual CMS-DRGs and MS-DRGs into a larger category. The MDRG is a four digit code. The first two digits are the MDC, and the second two digits are a sequence number (e.g., 01-04) within MDC. CMS-DRGs that are divided into separate CMS-DRGs due to the presence of complications and comorbidities (CC) are pooled into a single MDRG. MS-DRGs that are divided into separate MS-DRGs due to the presence of CC and Major CC (MCC) are pooled into a single MDRG. The CMS crosswalk was used to pool CMS-DRGs and MS-DRGs into a single MDRG.

<b>MDC</b>	<b>M/S</b>	<b>MDRG</b>	<b>MS DRG</b>	<b>MS-DRG DESCRIPTION</b>
01	S	0101	020	INTRACRANIAL VASCULAR PROCEDURES W PDX HEMORRHAGE W MCC
01	S	0101	021	INTRACRANIAL VASCULAR PROCEDURES W PDX HEMORRHAGE W CC
01	S	0101	022	INTRACRANIAL VASCULAR PROCEDURES W PDX HEMORRHAGE W/O CC/MCC
01	S	0102	023	CRANIO W MAJOR DEV IMPL/ACUTE COMPLEX CNS PDX W MCC OR CHEMO IMPLANT
01	S	0102	024	CRANIO W MAJOR DEV IMPL/ACUTE COMPLEX CNS PDX W/O MCC
01	S	0103	025	CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W MCC
01	S	0103	026	CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W CC
01	S	0103	027	CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W/O CC/MCC
01	S	0104	028	SPINAL PROCEDURES W MCC
01	S	0104	029	SPINAL PROCEDURES W CC OR SPINAL NEUROSTIMULATORS
01	S	0104	030	SPINAL PROCEDURES W/O CC/MCC
01	S	0105	031	VENTRICULAR SHUNT PROCEDURES W MCC
01	S	0105	032	VENTRICULAR SHUNT PROCEDURES W CC
01	S	0105	033	VENTRICULAR SHUNT PROCEDURES W/O CC/MCC
01	S	0106	034	CAROTID ARTERY STENT PROCEDURE W MCC
01	S	0106	035	CAROTID ARTERY STENT PROCEDURE W CC
01	S	0106	036	CAROTID ARTERY STENT PROCEDURE W/O CC/MCC
01	S	0107	037	EXTRACRANIAL PROCEDURES W MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
01	S	0107	038	EXTRACRANIAL PROCEDURES W CC
01	S	0107	039	EXTRACRANIAL PROCEDURES W/O CC/MCC
01	S	0108	040	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W MCC
01	S	0108	041	PERIPH/CRANIAL NERVE & OTHER NERV SYST PROC W CC OR PERIPH NEUROSTIM
01	S	0108	042	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W/O CC/MCC
01	M	0109	052	SPINAL DISORDERS & INJURIES W CC/MCC
01	M	0109	053	SPINAL DISORDERS & INJURIES W/O CC/MCC
01	M	0110	054	NERVOUS SYSTEM NEOPLASMS W MCC
01	M	0110	055	NERVOUS SYSTEM NEOPLASMS W/O MCC
01	M	0111	056	DEGENERATIVE NERVOUS SYSTEM DISORDERS W MCC
01	M	0111	057	DEGENERATIVE NERVOUS SYSTEM DISORDERS W/O MCC
01	M	0112	058	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W MCC
01	M	0112	059	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W CC
01	M	0112	060	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W/O CC/MCC
01	M	0113	061	ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC AGENT W MCC
01	M	0113	062	ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC AGENT W CC
01	M	0113	063	ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC AGENT W/O CC/MCC
01	M	0114	064	INTRACRANIAL HEMORRHAGE OR CEREBRAL INFARCTION W MCC
01	M	0114	065	INTRACRANIAL HEMORRHAGE OR CEREBRAL INFARCTION W CC
01	M	0114	066	INTRACRANIAL HEMORRHAGE OR CEREBRAL INFARCTION W/O CC/MCC
01	M	0115	067	NONSPECIFIC CVA & PRECEREBRAL OCCLUSION W/O INFARCT W MCC
01	M	0115	068	NONSPECIFIC CVA & PRECEREBRAL OCCLUSION W/O INFARCT W/O MCC
01	M	0116	069	TRANSIENT ISCHEMIA
01	M	0117	070	NONSPECIFIC CEREBROVASCULAR DISORDERS W MCC
01	M	0117	071	NONSPECIFIC CEREBROVASCULAR DISORDERS W CC
01	M	0117	072	NONSPECIFIC CEREBROVASCULAR DISORDERS W/O CC/MCC
01	M	0118	073	CRANIAL & PERIPHERAL NERVE DISORDERS W MCC
01	M	0118	074	CRANIAL & PERIPHERAL NERVE DISORDERS W/O MCC
01	M	0119	075	VIRAL MENINGITIS W CC/MCC
01	M	0119	076	VIRAL MENINGITIS W/O CC/MCC
01	M	0120	077	HYPERTENSIVE ENCEPHALOPATHY W MCC
01	M	0120	078	HYPERTENSIVE ENCEPHALOPATHY W CC
01	M	0120	079	HYPERTENSIVE ENCEPHALOPATHY W/O CC/MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
01	M	0121	080	NONTRAUMATIC STUPOR & COMA W MCC
01	M	0121	081	NONTRAUMATIC STUPOR & COMA W/O MCC
01	M	0122	082	TRAUMATIC STUPOR & COMA, COMA >1 HR W MCC
01	M	0122	083	TRAUMATIC STUPOR & COMA, COMA >1 HR W CC
01	M	0122	084	TRAUMATIC STUPOR & COMA, COMA >1 HR W/O CC/MCC
01	M	0123	085	TRAUMATIC STUPOR & COMA, COMA <1 HR W MCC
01	M	0123	086	TRAUMATIC STUPOR & COMA, COMA <1 HR W CC
01	M	0123	087	TRAUMATIC STUPOR & COMA, COMA <1 HR W/O CC/MCC
01	M	0124	088	CONCUSSION W MCC
01	M	0124	089	CONCUSSION W CC
01	M	0124	090	CONCUSSION W/O CC/MCC
01	M	0125	091	OTHER DISORDERS OF NERVOUS SYSTEM W MCC
01	M	0125	092	OTHER DISORDERS OF NERVOUS SYSTEM W CC
01	M	0125	093	OTHER DISORDERS OF NERVOUS SYSTEM W/O CC/MCC
01	M	0126	094	BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS SYSTEM W MCC
01	M	0126	095	BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS SYSTEM W CC
01	M	0126	096	BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS SYSTEM W/O CC/MCC
01	M	0127	097	NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL MENINGITIS W MCC
01	M	0127	098	NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL MENINGITIS W CC
01	M	0127	099	NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL MENINGITIS W/O CC/MCC
01	M	0128	100	SEIZURES W MCC
01	M	0128	101	SEIZURES W/O MCC
01	M	0128	101	SEIZURES W/O MCC
01	M	0129	102	HEADACHES W MCC
01	M	0129	103	HEADACHES W/O MCC
02	S	0201	113	ORBITAL PROCEDURES W CC/MCC
02	S	0201	114	ORBITAL PROCEDURES W/O CC/MCC
02	S	0202	115	EXTRAOCULAR PROCEDURES EXCEPT ORBIT
02	S	0202	115	EXTRAOCULAR PROCEDURES EXCEPT ORBIT
02	S	0203	116	INTRAOCULAR PROCEDURES W CC/MCC
02	S	0203	117	INTRAOCULAR PROCEDURES W/O CC/MCC
02	S	0203	117	INTRAOCULAR PROCEDURES W/O CC/MCC
02	S	0203	117	INTRAOCULAR PROCEDURES W/O CC/MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
02	M	0204	121	ACUTE MAJOR EYE INFECTIONS W CC/MCC
02	M	0204	122	ACUTE MAJOR EYE INFECTIONS W/O CC/MCC
02	M	0205	123	NEUROLOGICAL EYE DISORDERS
02	M	0206	124	OTHER DISORDERS OF THE EYE W MCC
02	M	0206	125	OTHER DISORDERS OF THE EYE W/O MCC
02	M	0206	125	OTHER DISORDERS OF THE EYE W/O MCC
02	M	0206	125	OTHER DISORDERS OF THE EYE W/O MCC
03	S	0301	129	MAJOR HEAD & NECK PROCEDURES W CC/MCC OR MAJOR DEVICE
03	S	0301	130	MAJOR HEAD & NECK PROCEDURES W/O CC/MCC
03	S	0301	131	CRANIAL/FACIAL PROCEDURES W CC/MCC
03	S	0301	132	CRANIAL/FACIAL PROCEDURES W/O CC/MCC
03	S	0302	133	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W CC/MCC
03	S	0302	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0303	135	SINUS & MASTOID PROCEDURES W CC/MCC
03	S	0303	136	SINUS & MASTOID PROCEDURES W/O CC/MCC
03	S	0304	137	MOUTH PROCEDURES W CC/MCC
03	S	0304	138	MOUTH PROCEDURES W/O CC/MCC
03	S	0305	139	SALIVARY GLAND PROCEDURES
03	S	0305	139	SALIVARY GLAND PROCEDURES
03	M	0306	146	EAR, NOSE, MOUTH & THROAT MALIGNANCY W MCC
03	M	0306	147	EAR, NOSE, MOUTH & THROAT MALIGNANCY W CC
03	M	0306	148	EAR, NOSE, MOUTH & THROAT MALIGNANCY W/O CC/MCC
03	M	0307	149	DYSEQUILIBRIUM
03	M	0308	150	EPISTAXIS W MCC
03	M	0308	151	EPISTAXIS W/O MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
03	M	0309	152	OTITIS MEDIA & URI W MCC
03	M	0309	153	OTITIS MEDIA & URI W/O MCC
03	M	0309	153	OTITIS MEDIA & URI W/O MCC
03	M	0309	153	OTITIS MEDIA & URI W/O MCC
03	M	0309	153	OTITIS MEDIA & URI W/O MCC
03	M	0310	154	NASAL TRAUMA & DEFORMITY W MCC
03	M	0310	155	NASAL TRAUMA & DEFORMITY W CC
03	M	0310	156	NASAL TRAUMA & DEFORMITY W/O CC/MCC
03	M	0311	157	DENTAL & ORAL DISEASES W MCC
03	M	0311	158	DENTAL & ORAL DISEASES W CC
03	M	0311	159	DENTAL & ORAL DISEASES W/O CC/MCC
04	S	0401	163	MAJOR CHEST PROCEDURES W MCC
04	S	0401	164	MAJOR CHEST PROCEDURES W CC
04	S	0401	165	MAJOR CHEST PROCEDURES W/O CC/MCC
04	S	0402	166	OTHER RESP SYSTEM O.R. PROCEDURES W MCC
04	S	0402	167	OTHER RESP SYSTEM O.R. PROCEDURES W CC
04	S	0402	168	OTHER RESP SYSTEM O.R. PROCEDURES W/O CC/MCC
04	M	0403	175	PULMONARY EMBOLISM W MCC
04	M	0403	176	PULMONARY EMBOLISM W/O MCC
04	M	0404	177	RESPIRATORY INFECTIONS & INFLAMMATIONS W MCC
04	M	0404	178	RESPIRATORY INFECTIONS & INFLAMMATIONS W CC
04	M	0404	179	RESPIRATORY INFECTIONS & INFLAMMATIONS W/O CC/MCC
04	M	0405	180	RESPIRATORY NEOPLASMS W MCC
04	M	0405	181	RESPIRATORY NEOPLASMS W CC
04	M	0405	182	RESPIRATORY NEOPLASMS W/O CC/MCC
04	M	0406	183	MAJOR CHEST TRAUMA W MCC
04	M	0406	184	MAJOR CHEST TRAUMA W CC
04	M	0406	185	MAJOR CHEST TRAUMA W/O CC/MCC
04	M	0407	186	PLEURAL EFFUSION W MCC
04	M	0407	187	PLEURAL EFFUSION W CC
04	M	0407	188	PLEURAL EFFUSION W/O CC/MCC
04	M	0408	189	PULMONARY EDEMA & RESPIRATORY FAILURE
04	M	0409	190	CHRONIC OBSTRUCTIVE PULMONARY DISEASE W MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
04	M	0409	191	CHRONIC OBSTRUCTIVE PULMONARY DISEASE W CC
04	M	0409	192	CHRONIC OBSTRUCTIVE PULMONARY DISEASE W/O CC/MCC
04	M	0410	193	SIMPLE PNEUMONIA & PLEURISY W MCC
04	M	0410	194	SIMPLE PNEUMONIA & PLEURISY W CC
04	M	0410	195	SIMPLE PNEUMONIA & PLEURISY W/O CC/MCC
04	M	0411	196	INTERSTITIAL LUNG DISEASE W MCC
04	M	0411	197	INTERSTITIAL LUNG DISEASE W CC
04	M	0411	198	INTERSTITIAL LUNG DISEASE W/O CC/MCC
04	M	0412	199	PNEUMOTHORAX W MCC
04	M	0412	200	PNEUMOTHORAX W CC
04	M	0412	201	PNEUMOTHORAX W/O CC/MCC
04	M	0413	202	BRONCHITIS & ASTHMA W CC/MCC
04	M	0413	203	BRONCHITIS & ASTHMA W/O CC/MCC
04	M	0413	203	BRONCHITIS & ASTHMA W/O CC/MCC
04	M	0414	204	RESPIRATORY SIGNS & SYMPTOMS
04	M	0414	204	RESPIRATORY SIGNS & SYMPTOMS
04	M	0415	205	OTHER RESPIRATORY SYSTEM DIAGNOSES W MCC
04	M	0415	206	OTHER RESPIRATORY SYSTEM DIAGNOSES W/O MCC
04	M	0416	207	RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR SUPPORT 96+ HOURS
04	M	0416	208	RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR SUPPORT <96 HOURS
05	S	0501	215	OTHER HEART ASSIST SYSTEM IMPLANT
05	S	0502	248	PERC CARDIOVASC PROC W NON-DRUG-ELUTING STENT W MCC OR 4+ VES/STENTS
05	S	0502	249	PERC CARDIOVASC PROC W NON-DRUG-ELUTING STENT W/O MCC
05	S	0503	216	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W MCC
05	S	0503	217	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W CC
05	S	0503	218	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W/O CC/MCC
05	S	0503	219	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W MCC
05	S	0503	220	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W CC
05	S	0503	221	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W/O CC/MCC
05	S	0504	222	CARDIAC DEFIB IMPLANT W CARDIAC CATH W AMI/HF/SHOCK W MCC
05	S	0504	223	CARDIAC DEFIB IMPLANT W CARDIAC CATH W AMI/HF/SHOCK W/O MCC
05	S	0504	224	CARDIAC DEFIB IMPLANT W CARDIAC CATH W/O AMI/HF/SHOCK W MCC
05	S	0504	225	CARDIAC DEFIB IMPLANT W CARDIAC CATH W/O AMI/HF/SHOCK W/O MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
05	S	0504	226	CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH W MCC
05	S	0504	227	CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH W/O MCC
05	S	0505	228	OTHER CARDIOTHORACIC PROCEDURES W MCC
05	S	0505	229	OTHER CARDIOTHORACIC PROCEDURES W CC
05	S	0505	230	OTHER CARDIOTHORACIC PROCEDURES W/O CC/MCC
05	S	0506	231	CORONARY BYPASS W PTCA W MCC
05	S	0506	232	CORONARY BYPASS W PTCA W/O MCC
05	S	0507	233	CORONARY BYPASS W CARDIAC CATH W MCC
05	S	0507	234	CORONARY BYPASS W CARDIAC CATH W/O MCC
05	S	0507	235	CORONARY BYPASS W/O CARDIAC CATH W MCC
05	S	0507	236	CORONARY BYPASS W/O CARDIAC CATH W/O MCC
05	S	0508	237	MAJOR CARDIOVASC PROCEDURES W MCC OR THORACIC AORTIC ANUERYSM REPAIR
05	S	0508	238	MAJOR CARDIOVASCULAR PROCEDURES W/O MCC
05	S	0509	239	AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W MCC
05	S	0509	240	AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W CC
05	S	0509	241	AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W/O CC/MCC
05	S	0510	242	PERMANENT CARDIAC PACEMAKER IMPLANT W MCC
05	S	0510	243	PERMANENT CARDIAC PACEMAKER IMPLANT W CC
05	S	0510	244	PERMANENT CARDIAC PACEMAKER IMPLANT W/O CC/MCC
05	S	0510	245	AICD LEAD & GENERATOR PROCEDURES
05	S	0510	265	AICD LEAD PROCEDURES
05	S	0511	246	PERC CARDIOVASC PROC W DRUG-ELUTING STENT W MCC OR 4+ VESSELS/STENTS
05	S	0511	247	PERC CARDIOVASC PROC W DRUG-ELUTING STENT W/O MCC
05	S	0513	250	PERC CARDIOVASC PROC W/O CORONARY ARTERY STENT OR AMI W MCC
05	S	0513	251	PERC CARDIOVASC PROC W/O CORONARY ARTERY STENT OR AMI W/O MCC
05	S	0514	252	OTHER VASCULAR PROCEDURES W MCC
05	S	0514	253	OTHER VASCULAR PROCEDURES W CC
05	S	0514	254	OTHER VASCULAR PROCEDURES W/O CC/MCC
05	S	0515	255	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W MCC
05	S	0515	256	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W CC
05	S	0515	257	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W/O CC/MCC
05	S	0516	258	CARDIAC PACEMAKER DEVICE REPLACEMENT W MCC
05	S	0516	259	CARDIAC PACEMAKER DEVICE REPLACEMENT W/O MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
05	S	0517	260	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W MCC
05	S	0517	261	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W CC
05	S	0517	262	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W/O CC/MCC
05	S	0518	263	VEIN LIGATION & STRIPPING
05	S	0519	264	OTHER CIRCULATORY SYSTEM O.R. PROCEDURES
05	S	0540	266	AICD LEAD PROCEDURES
05	S	0540	267	ENDOVASCULAR CARDIAC VALVE REPLACEMENT W/O MCC
05	S	0541	268	AORTIC AND HEART ASSIST PROCEDURES EXCEPT PULSATON BALLOON W MCC
05	S	0541	269	AORTIC AND HEART ASSIST PROCEDURES EXCEPT PULSATON BALLOON W/O MCC
05	S	0542	270	OTHER MAJOR CARDIOVASCULAR PROCEDURES W MCC
05	S	0542	271	OTHER MAJOR CARDIOVASCULAR PROCEDURES W CC
05	S	0542	272	OTHER MAJOR CARDIOVASCULAR PROCEDURES W/O CC/MCC
05	S	0543	273	PERCUTANEOUS INTRACARDIAC PROCEDURES W MCC
05	S	0543	274	PERCUTANEOUS INTRACARDIAC PROCEDURES W/O MCC
05	M	0520	280	ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE W MCC
05	M	0520	281	ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE W CC
05	M	0520	282	ACUTE MYOCARDIA INFARCTION, DISCHARGED ALIVE W/O CC/MCC
05	M	0521	283	ACUTE MYOCARDIAL INFARCTION, EXPIRED W MCC
05	M	0521	284	ACUTE MYOCARDIAL INFARCTION, EXPIRED W CC
05	M	0521	285	ACUTE MYOCARDIAL INFARCTION, EXPIRED W/O CC/MCC
05	M	0522	286	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W MCC
05	M	0522	287	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W/O MCC
05	M	0523	288	ACUTE & SUBACUTE ENDOCARDITIS W MCC
05	M	0523	289	ACUTE & SUBACUTE ENDOCARDITIS W CC
05	M	0523	290	ACUTE & SUBACUTE ENDOCARDITIS W/O CC/MCC
05	M	0524	291	HEART FAILURE & SHOCK W MCC
05	M	0524	292	HEART FAILURE & SHOCK W CC
05	M	0524	293	HEART FAILURE & SHOCK W/O CC/MCC
05	M	0525	294	DEEP VEIN THROMBOPHLEBITIS W CC/MCC
05	M	0525	295	DEEP VEIN THROMBOPHLEBITIS W/O CC/MCC
05	M	0526	296	CARDIAC ARREST, UNEXPLAINED W MCC
05	M	0526	297	CARDIAC ARREST, UNEXPLAINED W CC
05	M	0526	298	CARDIAC ARREST, UNEXPLAINED W/O CC/MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
05	M	0527	299	PERIPHERAL VASCULAR DISORDERS W MCC
05	M	0527	300	PERIPHERAL VASCULAR DISORDERS W CC
05	M	0527	301	PERIPHERAL VASCULAR DISORDERS W/O CC/MCC
05	M	0528	302	ATHEROSCLEROSIS W MCC
05	M	0528	303	ATHEROSCLEROSIS W/O MCC
05	M	0529	304	HYPERTENSION W MCC
05	M	0529	305	HYPERTENSION W/O MCC
05	M	0530	306	CARDIAC CONGENITAL & VALVULAR DISORDERS W MCC
05	M	0530	307	CARDIAC CONGENITAL & VALVULAR DISORDERS W/O MCC
05	M	0530	307	CARDIAC CONGENITAL & VALVULAR DISORDERS W/O MCC
05	M	0531	308	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W MCC
05	M	0531	309	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W CC
05	M	0531	310	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC/MCC
05	M	0532	311	ANGINA PECTORIS
05	M	0533	312	SYNCOPE & COLLAPSE
05	M	0533	312	SYNCOPE & COLLAPSE
05	M	0534	313	CHEST PAIN
05	M	0535	314	OTHER CIRCULATORY SYSTEM DIAGNOSES W MCC
05	M	0535	315	OTHER CIRCULATORY SYSTEM DIAGNOSES W CC
05	M	0535	316	OTHER CIRCULATORY SYSTEM DIAGNOSES W/O CC/MCC
06	S	0601	326	STOMACH, ESOPHAGEAL & DUODENAL PROC W MCC
06	S	0601	327	STOMACH, ESOPHAGEAL & DUODENAL PROC W CC
06	S	0601	328	STOMACH, ESOPHAGEAL & DUODENAL PROC W/O CC/MCC
06	S	0601	328	STOMACH, ESOPHAGEAL & DUODENAL PROC W/O CC/MCC
06	S	0602	329	MAJOR SMALL & LARGE BOWEL PROCEDURES W MCC
06	S	0602	330	MAJOR SMALL & LARGE BOWEL PROCEDURES W CC
06	S	0602	331	MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC/MCC
06	S	0603	332	RECTAL RESECTION W MCC
06	S	0603	333	RECTAL RESECTION W CC
06	S	0603	334	RECTAL RESECTION W/O CC/MCC
06	S	0604	335	PERITONEAL ADHESIOLYSIS W MCC
06	S	0604	336	PERITONEAL ADHESIOLYSIS W CC
06	S	0604	337	PERITONEAL ADHESIOLYSIS W/O CC/MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
06	S	0605	338	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W MCC
06	S	0605	339	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W CC
06	S	0605	340	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W/O CC/MCC
06	S	0606	341	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W MCC
06	S	0606	342	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W CC
06	S	0606	343	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC/MCC
06	S	0607	344	MINOR SMALL & LARGE BOWEL PROCEDURES W MCC
06	S	0607	345	MINOR SMALL & LARGE BOWEL PROCEDURES W CC
06	S	0607	346	MINOR SMALL & LARGE BOWEL PROCEDURES W/O CC/MCC
06	S	0608	347	ANAL & STOMAL PROCEDURES W MCC
06	S	0608	348	ANAL & STOMAL PROCEDURES W CC
06	S	0608	349	ANAL & STOMAL PROCEDURES W/O CC/MCC
06	S	0609	350	INGUINAL & FEMORAL HERNIA PROCEDURES W MCC
06	S	0609	351	INGUINAL & FEMORAL HERNIA PROCEDURES W CC
06	S	0609	352	INGUINAL & FEMORAL HERNIA PROCEDURES W/O CC/MCC
06	S	0610	353	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL W MCC
06	S	0610	354	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL W CC
06	S	0610	355	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL W/O CC/MCC
06	S	0611	356	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W MCC
06	S	0611	357	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W CC
06	S	0611	358	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC/MCC
06	M	0612	368	MAJOR ESOPHAGEAL DISORDERS W MCC
06	M	0612	369	MAJOR ESOPHAGEAL DISORDERS W CC
06	M	0612	370	MAJOR ESOPHAGEAL DISORDERS W/O CC/MCC
06	M	0613	371	MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W MCC
06	M	0613	372	MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W CC
06	M	0613	373	MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W/O CC/MCC
06	M	0614	374	DIGESTIVE MALIGNANCY W MCC
06	M	0614	375	DIGESTIVE MALIGNANCY W CC
06	M	0614	376	DIGESTIVE MALIGNANCY W/O CC/MCC
06	M	0615	377	G.I. HEMORRHAGE W MCC
06	M	0615	378	G.I. HEMORRHAGE W CC
06	M	0615	379	G.I. HEMORRHAGE W/O CC/MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
06	M	0616	380	COMPLICATED PEPTIC ULCER W MCC
06	M	0616	381	COMPLICATED PEPTIC ULCER W CC
06	M	0616	382	COMPLICATED PEPTIC ULCER W/O CC/MCC
06	M	0617	383	UNCOMPLICATED PEPTIC ULCER W MCC
06	M	0617	384	UNCOMPLICATED PEPTIC ULCER W/O MCC
06	M	0618	385	INFLAMMATORY BOWEL DISEASE W MCC
06	M	0618	386	INFLAMMATORY BOWEL DISEASE W CC
06	M	0618	387	INFLAMMATORY BOWEL DISEASE W/O CC/MCC
06	M	0619	388	G.I. OBSTRUCTION W MCC
06	M	0619	389	G.I. OBSTRUCTION W CC
06	M	0619	390	G.I. OBSTRUCTION W/O CC/MCC
06	M	0620	391	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W MCC
06	M	0620	392	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC
06	M	0620	392	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC
06	M	0621	393	OTHER DIGESTIVE SYSTEM DIAGNOSES W MCC
06	M	0621	394	OTHER DIGESTIVE SYSTEM DIAGNOSES W CC
06	M	0621	395	OTHER DIGESTIVE SYSTEM DIAGNOSES W/O CC/MCC
07	S	0701	405	PANCREAS, LIVER & SHUNT PROCEDURES W MCC
07	S	0701	406	PANCREAS, LIVER & SHUNT PROCEDURES W CC
07	S	0701	407	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC/MCC
07	S	0702	408	BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W MCC
07	S	0702	409	BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W CC
07	S	0702	410	BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W/O CC/MCC
07	S	0703	411	CHOLECYSTECTOMY W C.D.E. W MCC
07	S	0703	412	CHOLECYSTECTOMY W C.D.E. W CC
07	S	0703	413	CHOLECYSTECTOMY W C.D.E. W/O CC/MCC
07	S	0704	414	CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W MCC
07	S	0704	415	CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W CC
07	S	0704	416	CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W/O CC/MCC
07	S	0705	417	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W MCC
07	S	0705	418	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W CC
07	S	0705	419	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W/O CC/MCC
07	S	0706	420	HEPATOBILIARY DIAGNOSTIC PROCEDURES W MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
07	S	0706	421	HEPATOBILIARY DIAGNOSTIC PROCEDURES W CC
07	S	0706	422	HEPATOBILIARY DIAGNOSTIC PROCEDURES W/O CC/MCC
07	S	0707	423	OTHER HEPATOBILIARY OR PANCREAS O.R. PROCEDURES W MCC
07	S	0707	424	OTHER HEPATOBILIARY OR PANCREAS O.R. PROCEDURES W CC
07	S	0707	425	OTHER HEPATOBILIARY OR PANCREAS O.R. PROCEDURES W/O CC/MCC
07	M	0708	432	CIRRHOSIS & ALCOHOLIC HEPATITIS W MCC
07	M	0708	433	CIRRHOSIS & ALCOHOLIC HEPATITIS W CC
07	M	0708	434	CIRRHOSIS & ALCOHOLIC HEPATITIS W/O CC/MCC
07	M	0709	435	MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS W MCC
07	M	0709	436	MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS W CC
07	M	0709	437	MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS W/O CC/MCC
07	M	0710	438	DISORDERS OF PANCREAS EXCEPT MALIGNANCY W MCC
07	M	0710	439	DISORDERS OF PANCREAS EXCEPT MALIGNANCY W CC
07	M	0710	440	DISORDERS OF PANCREAS EXCEPT MALIGNANCY W/O CC/MCC
07	M	0711	441	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W MCC
07	M	0711	442	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W CC
07	M	0711	443	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W/O CC/MCC
07	M	0712	444	DISORDERS OF THE BILIARY TRACT W MCC
07	M	0712	445	DISORDERS OF THE BILIARY TRACT W CC
07	M	0712	446	DISORDERS OF THE BILIARY TRACT W/O CC/MCC
08	S	0801	453	COMBINED ANTERIOR/POSTERIOR SPINAL FUSION W MCC
08	S	0801	454	COMBINED ANTERIOR/POSTERIOR SPINAL FUSION W CC
08	S	0801	455	COMBINED ANTERIOR/POSTERIOR SPINAL FUSION W/O CC/MCC
08	S	0802	456	SPINAL FUS EXC CERV W SPINAL CURV/MALIG/INFEC OR 9+ FUS W MCC
08	S	0802	457	SPINAL FUS EXC CERV W SPINAL CURV/MALIG/INFEC OR 9+ FUS W CC
08	S	0802	458	SPINAL FUS EXC CERV W SPINAL CURV/MALIG/INFEC OR 9+ FUS W/O CC/MCC
08	S	0803	459	SPINAL FUSION EXCEPT CERVICAL W MCC
08	S	0803	460	SPINAL FUSION EXCEPT CERVICAL W/O MCC
08	S	0804	461	BILATERAL OR MULTIPLE MAJOR JOINT PROCS OF LOWER EXTREMITY W MCC
08	S	0804	462	BILATERAL OR MULTIPLE MAJOR JOINT PROCS OF LOWER EXTREMITY W/O MCC
08	S	0805	463	WND DEBRID & SKN GRFT EXC HAND, FOR MUSCULO-CONN TISS DIS W MCC
08	S	0805	464	WND DEBRID & SKN GRFT EXC HAND, FOR MUSCULO-CONN TISS DIS W CC
08	S	0805	465	WND DEBRID & SKN GRFT EXC HAND, FOR MUSCULO-CONN TISS DIS W/O CC/MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
08	S	0806	466	REVISION OF HIP OR KNEE REPLACEMENT W MCC
08	S	0806	467	REVISION OF HIP OR KNEE REPLACEMENT W CC
08	S	0806	468	REVISION OF HIP OR KNEE REPLACEMENT W/O CC/MCC
08	S	0807	469	MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY W MCC
08	S	0807	470	MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY W/O MCC
08	S	0808	471	CERVICAL SPINAL FUSION W MCC
08	S	0808	472	CERVICAL SPINAL FUSION W CC
08	S	0808	473	CERVICAL SPINAL FUSION W/O CC/MCC
08	S	0809	474	AMPUTATION FOR MUSCULOSKELETAL SYS & CONN TISSUE DIS W MCC
08	S	0809	475	AMPUTATION FOR MUSCULOSKELETAL SYS & CONN TISSUE DIS W CC
08	S	0809	476	AMPUTATION FOR MUSCULOSKELETAL SYS & CONN TISSUE DIS W/O CC/MCC
08	S	0810	477	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W MCC
08	S	0810	478	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W CC
08	S	0810	479	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W/O CC/MCC
08	S	0811	480	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT W MCC
08	S	0811	481	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT W CC
08	S	0811	482	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT W/O CC/MCC
08	S	0812	483	MAJOR JOINT & LIMB REATTACHMENT PROC OF UPPER EXTREMITY W CC/MCC
08	S	0812	484	MAJOR JOINT & LIMB REATTACHMENT PROC OF UPPER EXTREMITY W/O CC/MCC
08	S	0813	485	KNEE PROCEDURES W PDX OF INFECTION W MCC
08	S	0813	486	KNEE PROCEDURES W PDX OF INFECTION W CC
08	S	0813	487	KNEE PROCEDURES W PDX OF INFECTION W/O CC/MCC
08	S	0814	488	KNEE PROCEDURES W/O PDX OF INFECTION W CC/MCC
08	S	0814	489	KNEE PROCEDURES W/O PDX OF INFECTION W/O CC/MCC
08	S	0815	490	BACK & NECK PROC EXC SPINAL FUSION W CC/MCC OR DISC DEVICE/NEUROSTIM
08	S	0815	491	BACK & NECK PROC EXC SPINAL FUSION W/O CC/MCC
08	S	0816	492	LOWER EXTREM & HUMER PROC EXCEPT HIP,FOOT,FEMUR W MCC
08	S	0816	493	LOWER EXTREM & HUMER PROC EXCEPT HIP,FOOT,FEMUR W CC
08	S	0816	494	LOWER EXTREM & HUMER PROC EXCEPT HIP,FOOT,FEMUR W/O CC/MCC
08	S	0817	495	LOCAL EXCISION & REMOVAL INT FIX DEVICES EXC HIP & FEMUR W MCC
08	S	0817	496	LOCAL EXCISION & REMOVAL INT FIX DEVICES EXC HIP & FEMUR W CC
08	S	0817	497	LOCAL EXCISION & REMOVAL INT FIX DEVICES EXC HIP & FEMUR W/O CC/MCC
08	S	0818	498	LOCAL EXCISION & REMOVAL INT FIX DEVICES OF HIP & FEMUR W CC/MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
08	S	0818	499	LOCAL EXCISION & REMOVAL INT FIX DEVICES OF HIP & FEMUR W/O CC/MCC
08	S	0819	500	SOFT TISSUE PROCEDURES W MCC
08	S	0819	501	SOFT TISSUE PROCEDURES W CC
08	S	0819	502	SOFT TISSUE PROCEDURES W/O CC/MCC
08	S	0820	503	FOOT PROCEDURES W MCC
08	S	0820	504	FOOT PROCEDURES W CC
08	S	0820	505	FOOT PROCEDURES W/O CC/MCC
08	S	0821	506	MAJOR THUMB OR JOINT PROCEDURES
08	S	0822	507	MAJOR SHOULDER OR ELBOW JOINT PROCEDURES W CC/MCC
08	S	0822	508	MAJOR SHOULDER OR ELBOW JOINT PROCEDURES W/O CC/MCC
08	S	0823	509	ARTHROSCOPY
08	S	0824	510	SHOULDER,ELBOW OR FOREARM PROC,EXC MAJOR JOINT PROC W MCC
08	S	0824	511	SHOULDER,ELBOW OR FOREARM PROC,EXC MAJOR JOINT PROC W CC
08	S	0824	512	SHOULDER,ELBOW OR FOREARM PROC,EXC MAJOR JOINT PROC W/O CC/MCC
08	S	0825	513	HAND OR WRIST PROC, EXCEPT MAJOR THUMB OR JOINT PROC W CC/MCC
08	S	0825	514	HAND OR WRIST PROC, EXCEPT MAJOR THUMB OR JOINT PROC W/O CC/MCC
08	S	0826	515	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W MCC
08	S	0826	516	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W CC
08	S	0826	517	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W/O CC/MCC
08	M	0827	533	FRACTURES OF FEMUR W MCC
08	M	0827	534	FRACTURES OF FEMUR W/O MCC
08	M	0828	535	FRACTURES OF HIP & PELVIS W MCC
08	M	0828	536	FRACTURES OF HIP & PELVIS W/O MCC
08	M	0829	537	SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH W CC/MCC
08	M	0829	538	SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH W/O CC/MCC
08	M	0830	539	OSTEOMYELITIS W MCC
08	M	0830	540	OSTEOMYELITIS W CC
08	M	0830	541	OSTEOMYELITIS W/O CC/MCC
08	M	0831	542	PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W MCC
08	M	0831	543	PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W CC
08	M	0831	544	PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W/O CC/MCC
08	M	0832	545	CONNECTIVE TISSUE DISORDERS W MCC
08	M	0832	546	CONNECTIVE TISSUE DISORDERS W CC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
08	M	0832	547	CONNECTIVE TISSUE DISORDERS W/O CC/MCC
08	M	0833	548	SEPTIC ARTHRITIS W MCC
08	M	0833	549	SEPTIC ARTHRITIS W CC
08	M	0833	550	SEPTIC ARTHRITIS W/O CC/MCC
08	M	0834	551	MEDICAL BACK PROBLEMS W MCC
08	M	0834	552	MEDICAL BACK PROBLEMS W/O MCC
08	M	0835	553	BONE DISEASES & ARTHROPATHIES W MCC
08	M	0835	554	BONE DISEASES & ARTHROPATHIES W/O MCC
08	M	0835	554	BONE DISEASES & ARTHROPATHIES W/O MCC
08	M	0836	555	SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE W MCC
08	M	0836	556	SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE W/O MCC
08	M	0837	557	TENDONITIS, MYOSITIS & BURSITIS W MCC
08	M	0837	558	TENDONITIS, MYOSITIS & BURSITIS W/O MCC
08	M	0838	559	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W MCC
08	M	0838	560	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W CC
08	M	0838	561	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W/O CC/MCC
08	M	0839	562	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W MCC
08	M	0839	563	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC
08	M	0839	563	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC
08	M	0839	563	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC
08	M	0839	563	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC
08	M	0839	563	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC
08	M	0840	564	OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W MCC
08	M	0840	565	OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W CC
08	M	0840	566	OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W/O CC/MCC
09	S	0901	573	SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W MCC
09	S	0901	574	SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W CC
09	S	0901	575	SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W/O CC/MCC
09	S	0902	576	SKIN GRAFT &/OR DEBRID EXC FOR SKIN ULCER OR CELLULITIS W MCC
09	S	0902	577	SKIN GRAFT &/OR DEBRID EXC FOR SKIN ULCER OR CELLULITIS W CC
09	S	0902	578	SKIN GRAFT &/OR DEBRID EXC FOR SKIN ULCER OR CELLULITIS W/O CC/MCC
09	S	0903	579	OTHER SKIN, SUBCUT TISS & BREAST PROC W MCC
09	S	0903	580	OTHER SKIN, SUBCUT TISS & BREAST PROC W CC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
09	S	0903	581	OTHER SKIN, SUBCUT TISS & BREAST PROC W/O CC/MCC
09	S	0903	581	OTHER SKIN, SUBCUT TISS & BREAST PROC W/O CC/MCC
09	S	0904	582	MASTECTOMY FOR MALIGNANCY W CC/MCC
09	S	0904	583	MASTECTOMY FOR MALIGNANCY W/O CC/MCC
09	S	0905	584	BREAST BIOPSY, LOCAL EXCISION & OTHER BREAST PROCEDURES W CC/MCC
09	S	0905	585	BREAST BIOPSY, LOCAL EXCISION & OTHER BREAST PROCEDURES W/O CC/MCC
09	S	0905	585	BREAST BIOPSY, LOCAL EXCISION & OTHER BREAST PROCEDURES W/O CC/MCC
09	S	0905	585	BREAST BIOPSY, LOCAL EXCISION & OTHER BREAST PROCEDURES W/O CC/MCC
09	M	0906	592	SKIN ULCERS W MCC
09	M	0906	593	SKIN ULCERS W CC
09	M	0906	594	SKIN ULCERS W/O CC/MCC
09	M	0907	595	MAJOR SKIN DISORDERS W MCC
09	M	0907	596	MAJOR SKIN DISORDERS W/O MCC
09	M	0908	597	MALIGNANT BREAST DISORDERS W MCC
09	M	0908	598	MALIGNANT BREAST DISORDERS W CC
09	M	0908	599	MALIGNANT BREAST DISORDERS W/O CC/MCC
09	M	0909	600	NON-MALIGNANT BREAST DISORDERS W CC/MCC
09	M	0909	601	NON-MALIGNANT BREAST DISORDERS W/O CC/MCC
09	M	0910	602	CELLULITIS W MCC
09	M	0910	603	CELLULITIS W/O MCC
09	M	0910	603	CELLULITIS W/O MCC
09	M	0911	604	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST W MCC
09	M	0911	605	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST W/O MCC
09	M	0911	605	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST W/O MCC
09	M	0912	606	MINOR SKIN DISORDERS W MCC
09	M	0912	607	MINOR SKIN DISORDERS W/O MCC
10	S	1001	614	ADRENAL & PITUITARY PROCEDURES W CC/MCC
10	S	1001	615	ADRENAL & PITUITARY PROCEDURES W/O CC/MCC
10	S	1002	616	AMPUTAT OF LOWER LIMB FOR ENDOCRINE,NUTRIT,& METABOL DIS W MCC
10	S	1002	617	AMPUTAT OF LOWER LIMB FOR ENDOCRINE,NUTRIT,& METABOL DIS W CC
10	S	1002	618	AMPUTAT OF LOWER LIMB FOR ENDOCRINE,NUTRIT,& METABOL DIS W/O CC/MCC
10	S	1003	619	O.R. PROCEDURES FOR OBESITY W MCC
10	S	1003	620	O.R. PROCEDURES FOR OBESITY W CC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
10	S	1003	621	O.R. PROCEDURES FOR OBESITY W/O CC/MCC
10	S	1004	622	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DIS W MCC
10	S	1004	623	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DIS W CC
10	S	1004	624	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DIS W/O CC/MCC
10	S	1005	625	THYROID, PARATHYROID & THYROGLOSSAL PROCEDURES W MCC
10	S	1005	626	THYROID, PARATHYROID & THYROGLOSSAL PROCEDURES W CC
10	S	1005	627	THYROID, PARATHYROID & THYROGLOSSAL PROCEDURES W/O CC/MCC
10	S	1006	628	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W MCC
10	S	1006	629	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W CC
10	S	1006	630	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/O CC/MCC
10	M	1007	637	DIABETES W MCC
10	M	1007	638	DIABETES W CC
10	M	1007	639	DIABETES W/O CC/MCC
10	M	1008	640	NUTRITIONAL & MISC METABOLIC DISORDERS W MCC
10	M	1008	641	NUTRITIONAL & MISC METABOLIC DISORDERS W/O MCC
10	M	1008	641	NUTRITIONAL & MISC METABOLIC DISORDERS W/O MCC
10	M	1009	642	INBORN ERRORS OF METABOLISM
10	M	1010	643	ENDOCRINE DISORDERS W MCC
10	M	1010	644	ENDOCRINE DISORDERS W CC
10	M	1010	645	ENDOCRINE DISORDERS W/O CC/MCC
11	S	1101	652	KIDNEY TRANSPLANT
11	S	1102	653	MAJOR BLADDER PROCEDURES W MCC
11	S	1102	654	MAJOR BLADDER PROCEDURES W CC
11	S	1102	655	MAJOR BLADDER PROCEDURES W/O CC/MCC
11	S	1103	656	KIDNEY & URETER PROCEDURES FOR NEOPLASM W MCC
11	S	1103	657	KIDNEY & URETER PROCEDURES FOR NEOPLASM W CC
11	S	1103	658	KIDNEY & URETER PROCEDURES FOR NEOPLASM W/O CC/MCC
11	S	1104	659	KIDNEY & URETER PROCEDURES FOR NON-NEOPLASM W MCC
11	S	1104	660	KIDNEY & URETER PROCEDURES FOR NON-NEOPLASM W CC
11	S	1104	661	KIDNEY & URETER PROCEDURES FOR NON-NEOPLASM W/O CC/MCC
11	S	1105	662	MINOR BLADDER PROCEDURES W MCC
11	S	1105	663	MINOR BLADDER PROCEDURES W CC
11	S	1105	664	MINOR BLADDER PROCEDURES W/O CC/MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
11	S	1106	665	PROSTATECTOMY W MCC
11	S	1106	666	PROSTATECTOMY W CC
11	S	1106	667	PROSTATECTOMY W/O CC/MCC
11	S	1107	668	TRANSURETHRAL PROCEDURES W MCC
11	S	1107	669	TRANSURETHRAL PROCEDURES W CC
11	S	1107	670	TRANSURETHRAL PROCEDURES W/O CC/MCC
11	S	1108	671	URETHRAL PROCEDURES W CC/MCC
11	S	1108	672	URETHRAL PROCEDURES W/O CC/MCC
11	S	1108	672	URETHRAL PROCEDURES W/O CC/MCC
11	S	1109	673	OTHER KIDNEY & URINARY TRACT PROCEDURES W MCC
11	S	1109	674	OTHER KIDNEY & URINARY TRACT PROCEDURES W CC
11	S	1109	675	OTHER KIDNEY & URINARY TRACT PROCEDURES W/O CC/MCC
11	M	1110	682	RENAL FAILURE W MCC
11	M	1110	683	RENAL FAILURE W CC
11	M	1110	684	RENAL FAILURE W/O CC/MCC
11	M	1111	685	ADMIT FOR RENAL DIALYSIS
11	M	1112	686	KIDNEY & URINARY TRACT NEOPLASMS W MCC
11	M	1112	687	KIDNEY & URINARY TRACT NEOPLASMS W CC
11	M	1112	688	KIDNEY & URINARY TRACT NEOPLASMS W/O CC/MCC
11	M	1113	689	KIDNEY & URINARY TRACT INFECTIONS W MCC
11	M	1113	690	KIDNEY & URINARY TRACT INFECTIONS W/O MCC
11	M	1113	690	KIDNEY & URINARY TRACT INFECTIONS W/O MCC
11	M	1114	691	URINARY STONES W ESW LITHOTRIPSY W CC/MCC
11	M	1114	692	URINARY STONES W ESW LITHOTRIPSY W/O CC/MCC
11	M	1115	693	URINARY STONES W/O ESW LITHOTRIPSY W MCC
11	M	1115	694	URINARY STONES W/O ESW LITHOTRIPSY W/O MCC
11	M	1116	695	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS W MCC
11	M	1116	696	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS W/O MCC
11	M	1116	696	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS W/O MCC
11	M	1117	697	URETHRAL STRICTURE
11	M	1117	697	URETHRAL STRICTURE
11	M	1117	697	URETHRAL STRICTURE
11	M	1118	698	OTHER KIDNEY & URINARY TRACT DIAGNOSES W MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
11	M	1118	699	OTHER KIDNEY & URINARY TRACT DIAGNOSES W CC
11	M	1118	700	OTHER KIDNEY & URINARY TRACT DIAGNOSES W/O CC/MCC
12	S	1201	707	MAJOR MALE PELVIC PROCEDURES W CC/MCC
12	S	1201	708	MAJOR MALE PELVIC PROCEDURES W/O CC/MCC
12	S	1202	709	PENIS PROCEDURES W CC/MCC
12	S	1202	710	PENIS PROCEDURES W/O CC/MCC
12	S	1203	711	TESTES PROCEDURES W CC/MCC
12	S	1203	712	TESTES PROCEDURES W/O CC/MCC
12	S	1203	712	TESTES PROCEDURES W/O CC/MCC
12	S	1204	713	TRANSURETHRAL PROSTATECTOMY W CC/MCC
12	S	1204	714	TRANSURETHRAL PROSTATECTOMY W/O CC/MCC
12	S	1205	715	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC FOR MALIGNANCY W CC/MCC
12	S	1205	716	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC FOR MALIGNANCY W/O CC/MCC
12	S	1206	717	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXC MALIGNANCY W CC/MCC
12	S	1206	718	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXC MALIGNANCY W/O CC/MCC
12	S	1206	718	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXC MALIGNANCY W/O CC/MCC
12	M	1207	722	MALIGNANCY, MALE REPRODUCTIVE SYSTEM W MCC
12	M	1207	723	MALIGNANCY, MALE REPRODUCTIVE SYSTEM W CC
12	M	1207	724	MALIGNANCY, MALE REPRODUCTIVE SYSTEM W/O CC/MCC
12	M	1208	725	BENIGN PROSTATIC HYPERTROPHY W MCC
12	M	1208	726	BENIGN PROSTATIC HYPERTROPHY W/O MCC
12	M	1209	727	INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM W MCC
12	M	1209	728	INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM W/O MCC
12	M	1210	729	OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES W CC/MCC
12	M	1210	730	OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES W/O CC/MCC
13	S	1301	734	PELVIC EVISCERATION, RAD HYSERECTOMY & RAD VULVECTOMY W CC/MCC
13	S	1301	735	PELVIC EVISCERATION, RAD HYSERECTOMY & RAD VULVECTOMY W/O CC/MCC
13	S	1302	736	UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY W MCC
13	S	1302	737	UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY W CC
13	S	1302	738	UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY W/O CC/MCC
13	S	1303	739	UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W MCC
13	S	1303	740	UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W CC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
13	S	1303	741	UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W/O CC/MCC
13	S	1304	742	UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W CC/MCC
13	S	1304	743	UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W/O CC/MCC
13	S	1305	744	D&C, CONIZATION, LAPAROSCOPY & TUBAL INTERRUPTION W CC/MCC
13	S	1305	745	D&C, CONIZATION, LAPAROSCOPY & TUBAL INTERRUPTION W/O CC/MCC
13	S	1305	745	D&C, CONIZATION, LAPAROSCOPY & TUBAL INTERRUPTION W/O CC/MCC
13	S	1305	745	D&C, CONIZATION, LAPAROSCOPY & TUBAL INTERRUPTION W/O CC/MCC
13	S	1306	746	VAGINA, CERVIX & VULVA PROCEDURES W CC/MCC
13	S	1306	747	VAGINA, CERVIX & VULVA PROCEDURES W/O CC/MCC
13	S	1307	748	FEMALE REPRODUCTIVE SYSTEM RECONSTRUCTIVE PROCEDURES
13	S	1308	749	OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES W CC/MCC
13	S	1308	750	OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES W/O CC/MCC
13	M	1309	754	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W MCC
13	M	1309	755	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W CC
13	M	1309	756	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W/O CC/MCC
13	M	1310	757	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W MCC
13	M	1310	758	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W CC
13	M	1310	759	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W/O CC/MCC
13	M	1311	760	MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM DISORDERS W CC/MCC
13	M	1311	761	MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM DISORDERS W/O CC/MCC
14	S	1401	765	CESAREAN SECTION W CC/MCC
14	S	1401	766	CESAREAN SECTION W/O CC/MCC
14	S	1402	767	VAGINAL DELIVERY W STERILIZATION &/OR D&C
14	S	1402	768	VAGINAL DELIVERY W O.R. PROC EXCEPT STERIL &/OR D&C
14	S	1403	769	POSTPARTUM & POST ABORTION DIAGNOSES W O.R. PROCEDURE
14	S	1404	770	ABORTION W D&C, ASPIRATION CURETTAGE OR HYSTEROTOMY
14	M	1405	774	VAGINAL DELIVERY W COMPLICATING DIAGNOSES
14	M	1405	775	VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES
14	M	1406	776	POSTPARTUM & POST ABORTION DIAGNOSES W/O O.R. PROCEDURE
14	M	1407	777	ECTOPIC PREGNANCY
14	M	1408	778	THREATENED ABORTION
14	M	1409	779	ABORTION W/O D&C
14	M	1410	780	FALSE LABOR

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
14	M	1411	781	OTHER ANTEPARTUM DIAGNOSES W MEDICAL COMPLICATIONS
14	M	1412	782	OTHER ANTEPARTUM DIAGNOSES W/O MEDICAL COMPLICATIONS
15	M	1501	789	NEONATES, DIED OR TRANSFERRED TO ANOTHER ACUTE CARE FACILITY
15	M	1502	790	EXTREME IMMATURITY OR RESPIRATORY DISTRESS SYNDROME, NEONATE
15	M	1503	791	PREMATURITY W MAJOR PROBLEMS
15	M	1504	792	PREMATURITY W/O MAJOR PROBLEMS
15	M	1505	793	FULL TERM NEONATE W MAJOR PROBLEMS
15	M	1506	794	NEONATE W OTHER SIGNIFICANT PROBLEMS
15	M	1507	795	NORMAL NEWBORN
16	S	1601	799	SPLENECTOMY W MCC
16	S	1601	800	SPLENECTOMY W CC
16	S	1601	801	SPLENECTOMY W/O CC/MCC
16	S	1602	802	OTHER O.R. PROC OF THE BLOOD & BLOOD FORMING ORGANS W MCC
16	S	1602	803	OTHER O.R. PROC OF THE BLOOD & BLOOD FORMING ORGANS W CC
16	S	1602	804	OTHER O.R. PROC OF THE BLOOD & BLOOD FORMING ORGANS W/O CC/MCC
16	M	1603	808	MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS & COAGUL W MCC
16	M	1603	809	MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS & COAGUL W CC
16	M	1603	810	MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS & COAGUL W/O CC/MCC
16	M	1604	811	RED BLOOD CELL DISORDERS W MCC
16	M	1604	812	RED BLOOD CELL DISORDERS W/O MCC
16	M	1605	813	COAGULATION DISORDERS
16	M	1606	814	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W MCC
16	M	1606	815	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W CC
16	M	1606	816	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W/O CC/MCC
17	S	1707	820	LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE W MCC
17	S	1707	821	LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE W CC
17	S	1707	822	LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE W/O CC/MCC
17	S	1708	823	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W MCC
17	S	1708	824	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W CC
17	S	1708	825	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W/O CC/MCC
17	S	1709	826	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W MCC
17	S	1709	827	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W CC
17	S	1709	828	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W/O CC/MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
17	S	1710	829	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W OTHER O.R. PROC W CC/MCC
17	S	1710	830	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W OTHER O.R. PROC W/O CC/MCC
17	M	1711	834	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W MCC
17	M	1711	835	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W CC
17	M	1711	836	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W/O CC/MCC
17	M	1712	837	CHEMO W ACUTE LEUKEMIA AS SDX OR W HIGH DOSE CHEMO AGENT W MCC
17	M	1712	838	CHEMO W ACUTE LEUKEMIA AS SDX W CC OR HIGH DOSE CHEMO AGENT
17	M	1712	839	CHEMO W ACUTE LEUKEMIA AS SDX W/O CC/MCC
17	M	1713	840	LYMPHOMA & NON-ACUTE LEUKEMIA W MCC
17	M	1713	841	LYMPHOMA & NON-ACUTE LEUKEMIA W CC
17	M	1713	842	LYMPHOMA & NON-ACUTE LEUKEMIA W/O CC/MCC
17	M	1714	843	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W MCC
17	M	1714	844	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W CC
17	M	1714	845	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC/MCC
17	M	1714	845	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC/MCC
17	M	1715	846	CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W MCC
17	M	1715	847	CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W CC
17	M	1715	848	CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W/O CC/MCC
17	M	1716	849	RADIOTHERAPY
18	S	1801	853	INFECTIOUS & PARASITIC DISEASES W O.R. PROCEDURE W MCC
18	S	1801	854	INFECTIOUS & PARASITIC DISEASES W O.R. PROCEDURE W CC
18	S	1801	855	INFECTIOUS & PARASITIC DISEASES W O.R. PROCEDURE W/O CC/MCC
18	S	1802	856	POSTOPERATIVE OR POST-TRAUMATIC INFECTIONS W O.R. PROC W MCC
18	S	1802	857	POSTOPERATIVE OR POST-TRAUMATIC INFECTIONS W O.R. PROC W CC
18	S	1802	858	POSTOPERATIVE OR POST-TRAUMATIC INFECTIONS W O.R. PROC W/O CC/MCC
18	M	1803	862	POSTOPERATIVE & POST-TRAUMATIC INFECTIONS W MCC
18	M	1803	863	POSTOPERATIVE & POST-TRAUMATIC INFECTIONS W/O MCC
18	M	1804	864	FEVER OF UNKNOWN ORIGIN
18	M	1804	864	FEVER OF UNKNOWN ORIGIN
18	M	1805	865	VIRAL ILLNESS W MCC
18	M	1805	866	VIRAL ILLNESS W/O MCC
18	M	1806	867	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
18	M	1806	868	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W CC
18	M	1806	869	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W/O CC/MCC
18	M	1807	870	SEPTICEMIA W MV 96+ HOURS
18	M	1807	870	SEPTICEMIA W MV 96+ HOURS
18	M	1808	871	SEPTICEMIA W/O MV 96+ HOURS W MCC
18	M	1808	872	SEPTICEMIA W/O MV 96+ HOURS W/O MCC
19	S	1909	876	O.R. PROCEDURE W PRINCIPAL DIAGNOSES OF MENTAL ILLNESS
19	M	1910	880	ACUTE ADJUSTMENT REACTION & PSYCHOSOCIAL DYSFUNCTION
19	M	1911	881	DEPRESSIVE NEUROSES
19	M	1912	882	NEUROSES EXCEPT DEPRESSIVE
19	M	1913	883	DISORDERS OF PERSONALITY & IMPULSE CONTROL
19	M	1914	884	ORGANIC DISTURBANCES & MENTAL RETARDATION
19	M	1915	885	PSYCHOSES
19	M	1916	886	BEHAVIORAL & DEVELOPMENTAL DISORDERS
19	M	1917	887	OTHER MENTAL DISORDER DIAGNOSES
20	M	2018	894	ALCOHOL/DRUG ABUSE OR DEPENDENCE, LEFT AMA
20	M	2019	895	ALCOHOL/DRUG ABUSE OR DEPENDENCE W REHABILITATION THERAPY
20	M	2019	895	ALCOHOL/DRUG ABUSE OR DEPENDENCE W REHABILITATION THERAPY
20	M	2020	896	ALCOHOL/DRUG ABUSE OR DEPENDENCE W/O REHABILITATION THERAPY W MCC
20	M	2020	897	ALCOHOL/DRUG ABUSE OR DEPENDENCE W/O REHABILITATION THERAPY W/O MCC
21	S	2101	901	WOUND DEBRIDEMENTS FOR INJURIES W MCC
21	S	2101	902	WOUND DEBRIDEMENTS FOR INJURIES W CC
21	S	2101	903	WOUND DEBRIDEMENTS FOR INJURIES W/O CC/MCC
21	S	2102	904	SKIN GRAFTS FOR INJURIES W CC/MCC
21	S	2102	905	SKIN GRAFTS FOR INJURIES W/O CC/MCC
21	S	2103	906	HAND PROCEDURES FOR INJURIES
21	S	2104	907	OTHER O.R. PROCEDURES FOR INJURIES W MCC
21	S	2104	908	OTHER O.R. PROCEDURES FOR INJURIES W CC
21	S	2104	909	OTHER O.R. PROCEDURES FOR INJURIES W/O CC/MCC
21	M	2105	913	TRAUMATIC INJURY W MCC
21	M	2105	914	TRAUMATIC INJURY W/O MCC
21	M	2105	914	TRAUMATIC INJURY W/O MCC
21	M	2106	915	ALLERGIC REACTIONS W MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
21	M	2106	916	ALLERGIC REACTIONS W/O MCC
21	M	2107	917	POISONING & TOXIC EFFECTS OF DRUGS W MCC
21	M	2107	918	POISONING & TOXIC EFFECTS OF DRUGS W/O MCC
21	M	2107	918	POISONING & TOXIC EFFECTS OF DRUGS W/O MCC
21	M	2108	919	COMPLICATIONS OF TREATMENT W MCC
21	M	2108	920	COMPLICATIONS OF TREATMENT W CC
21	M	2108	921	COMPLICATIONS OF TREATMENT W/O CC/MCC
21	M	2109	922	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W MCC
21	M	2109	923	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W/O MCC
22	S	2201	928	FULL THICKNESS BURN W SKIN GRAFT OR INHAL INJ W CC/MCC
22	S	2201	929	FULL THICKNESS BURN W SKIN GRAFT OR INHAL INJ W/O CC/MCC
22	S	2210	927	EXTENSIVE BURNS OR FULL THICKNESS BURNS W MV 96+ HRS W SKIN GRAFT
22	M	2212	933	EXTENSIVE BURNS OR FULL THICKNESS BURNS W MV 96+ HRS W/O SKIN GRAFT
22	M	2213	934	FULL THICKNESS BURN W/O SKIN GRAFT OR INHAL INJ
22	M	2213	934	FULL THICKNESS BURN W/O SKIN GRAFT OR INHAL INJ
22	M	2214	935	NON-EXTENSIVE BURNS
22	M	2214	935	NON-EXTENSIVE BURNS
23	S	2301	939	O.R. PROC W DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES W MCC
23	S	2301	940	O.R. PROC W DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES W CC
23	S	2301	941	O.R. PROC W DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES W/O CC/MCC
23	M	2302	945	REHABILITATION W CC/MCC
23	M	2302	946	REHABILITATION W/O CC/MCC
23	M	2303	947	SIGNS & SYMPTOMS W MCC
23	M	2303	948	SIGNS & SYMPTOMS W/O MCC
23	M	2304	949	AFTERCARE W CC/MCC
23	M	2304	950	AFTERCARE W/O CC/MCC
23	M	2305	951	OTHER FACTORS INFLUENCING HEALTH STATUS
24	S	2406	955	CRANIOTOMY FOR MULTIPLE SIGNIFICANT TRAUMA
24	S	2407	956	LIMB REATTACHMENT, HIP & FEMUR PROC FOR MULTIPLE SIGNIFICANT TRAUMA
24	S	2408	957	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA W MCC
24	S	2408	958	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA W CC
24	S	2408	959	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA W/O CC/MCC
24	M	2409	963	OTHER MULTIPLE SIGNIFICANT TRAUMA W MCC

MDC	M/S	MDRG	MS DRG	MS-DRG DESCRIPTION
24	M	2409	964	OTHER MULTIPLE SIGNIFICANT TRAUMA W CC
24	M	2409	965	OTHER MULTIPLE SIGNIFICANT TRAUMA W/O CC/MCC
25	S	2501	969	HIV W EXTENSIVE O.R. PROCEDURE W MCC
25	S	2501	970	HIV W EXTENSIVE O.R. PROCEDURE W/O MCC
25	M	2502	974	HIV W MAJOR RELATED CONDITION W MCC
25	M	2502	975	HIV W MAJOR RELATED CONDITION W CC
25	M	2502	976	HIV W MAJOR RELATED CONDITION W/O CC/MCC
25	M	2503	977	HIV W OR W/O OTHER RELATED CONDITION
PR <sup>1</sup>	S	7701	001	HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM W MCC
PR	S	7701	002	HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM W/O MCC
PR	S	7702	005	LIVER TRANSPLANT W MCC OR INTESTINAL TRANSPLANT
PR	S	7702	006	LIVER TRANSPLANT W/O MCC
PR	S	7703	007	LUNG TRANSPLANT
PR	S	7704	008	SIMULTANEOUS PANCREAS/KIDNEY TRANSPLANT
PR	S	7705	009	BONE MARROW TRANSPLANT
PR	S	7705	014	ALLOGENEIC BONE MARROW TRANSPLANT
PR	S	7705	015	AUTOLOGOUS BONE MARROW TRANSPLANT
PR	S	7706	010	PANCREAS TRANSPLANT
PR	S	7799	003	ECMO OR TRACH W MV 96+ HRS OR PDX EXC FACE, MOUTH & NECK W MAJ O.R.
PR	S	7799	004	TRACH W MV 96+ HRS OR PDX EXC FACE, MOUTH & NECK W/O MAJ O.R.
PR	S	7799	011	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES W MCC
PR	S	7799	012	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES W CC
PR	S	7799	013	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES W/O CC/MCC
* <sup>2</sup>	M	8898	998	PRINCIPAL DIAGNOSIS INVALID AS DISCHARGE DIAGNOSIS
*	M	8898	999	UNGROUPABLE
*	S	8899	981	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W MCC
*	S	8899	982	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W CC
*	S	8899	983	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W/O CC/MCC
*	S	8899	985	PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W CC
*	S	8899	986	PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W/O CC/MCC
*	S	8899	987	NON-EXTENSIVE O.R. PROC UNRELATED TO PRINCIPAL DIAGNOSIS W MCC
*	S	8899	988	NON-EXTENSIVE O.R. PROC UNRELATED TO PRINCIPAL DIAGNOSIS W CC
*	S	8899	989	NON-EXTENSIVE O.R. PROC UNRELATED TO PRINCIPAL DIAGNOSIS W/O CC/MCC

<sup>1</sup> Certain procedure codes have corresponding MS-DRG codes.<sup>2</sup> These DRG and MS-DRG codes are not assigned to an MDC.

**Table A.3. Major Diagnostic Categories (MDC)**

MDC	DESCRIPTION
1	DISEASES & DISORDERS OF THE NERVOUS SYSTEM
2	DISEASES & DISORDERS OF THE EYE
3	DISEASES & DISORDERS OF THE EAR, NOSE, MOUTH & THROAT
4	DISEASES & DISORDERS OF THE RESPIRATORY SYSTEM
5	DISEASES & DISORDERS OF THE CIRCULATORY SYSTEM
6	DISEASES & DISORDERS OF THE DIGESTIVE SYSTEM
7	DISEASES & DISORDERS OF THE HEPATOBILIARY SYSTEM & PANCREAS
8	DISEASES & DISORDERS OF THE MUSCULOSKELETAL SYSTEM & CONN TISSUE
9	DISEASES & DISORDERS OF THE SKIN, SUBCUTANEOUS TISSUE & BREAST
10	ENDOCRINE, NUTRITIONAL & METABOLIC DISEASES & DISORDERS
11	DISEASES & DISORDERS OF THE KIDNEY & URINARY TRACT
12	DISEASES & DISORDERS OF THE MALE REPRODUCTIVE SYSTEM
13	DISEASES & DISORDERS OF THE FEMALE REPRODUCTIVE SYSTEM
14	PREGNANCY, CHILDBIRTH & THE Puerperium
15	NEWBORNS & OTHER NEONATES WITH CONDTN ORIG IN PERINATAL PERIOD
16	DISEASES & DISORDERS OF BLOOD, BLOOD FORMING ORGANS, IMMUNOLOG DISORD
17	MYELOPROLIFERATIVE DISEASES & DISORDERS, POORLY DIFFERENTIATED NEOPLASM
18	INFECTIOUS & PARASITIC DISEASES, SYSTEMIC OR UNSPECIFIED SITES
19	MENTAL DISEASES & DISORDERS
20	ALCOHOL/DRUG USE & ALCOHOL/DRUG INDUCED ORGANIC MENTAL DISORDERS
21	INJURIES, POISONINGS & TOXIC EFFECTS OF DRUGS
22	BURNS
23	FACTORS INFLUENCING HLTH STAT & OTHR CONTACTS WITH HLTH SERVCS
24	MULTIPLE SIGNIFICANT TRAUMA
25	HUMAN IMMUNODEFICIENCY VIRUS INFECTIONS
OTHER	REPRESENTS ALL OTHER MDCs NOT EXPLICITLY INCLUDED AS A PARAMETER IN QI RISK ADJUSTMENT MODEL

**Table A.4. Comorbidity Categories (COMORB), HCUP Comorbidity Software, Version 3.7\***

COMORBIDITY	DESCRIPTION
AIDS	Acquired immune deficiency syndrome
ALCOHOL	Alcohol abuse
ANEMDEF	Deficiency Anemias
ARTH	Rheumatoid arthritis/collagen vas
BLDLOSS	Chronic blood loss anemia
CHF	Congestive heart failure
CHRNLUNG	Chronic pulmonary disease
DEPRESS	Depression
DM	Diabetes w/o chronic complications
DMCX	Diabetes w/ chronic complications
DRUG	Drug abuse
HTN	Hypertension, uncomplicated
HTNCX	Hypertension, complicated
HYPOTHY	Hypothyroidism
LIVER	Liver disease
LYMPH	Lymphoma
METS	Metastatic cancer
NEURO	Other neurological disorders
OBESE	Obesity
PARA	Paralysis
PERIVASC	Peripheral vascular disease
PSYCH	Psychoses
PULMCIRC	Pulmonary circulation disease
RENLFAIL	Renal failure
TUMOR	Solid tumor w/out metastasis
ULCER	Peptic ulcer Disease x bleeding
VALVE	Valvular disease
WGHTLOSS	Weight loss

\*HCUP Comorbidity Software, Version 3.7 Healthcare Cost and Utilization Project (HCUP). 2013. Agency for Healthcare Research and Quality, Rockville, MD.  
<http://www.hcup-us.ahrq.gov/toolssoftware/comorbidity/comorbidity.jsp> Accessed May 6, 2013.

**Table A.5. Categorical Variables Definitions: Transfer, Procedure Days, Point of Origin**

CATEGORY	DESCRIPTION	DEFINITION
TRNSFER	Transfer-in	If admission type (ATYPE) not equal to '4' (newborn) and - admission source (ASOURCE) equal to '2' (Another Hospital) or - point of origin (POINTOFORIGINUB04) equal to '4' (Transfer from a Hospital), then TRNSFER=1
NOPOUB04	UB-04 Point-of-Origin Data Not Available	If admission source (ASOURCE) is not equal to missing and point of origin (POINTOFORIGINUB04) is equal to missing, then NOPOUB04=1
NOPRDAY	Procedure Days Data Not Available	If PRDAY1 and PRDAY2 and . . . PRDAYn is equal to missing, where n is the number of Procedure Codes reported in the user's data – then NOPRDAY = 1